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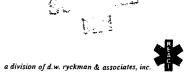
Site Activities Report Sandoval Zinc Site Limited Environmental Cleanup

REACT Project No. 6536.04 April, 1999



Prepared for:
Illinois Environmental Protection Agency
1001 North Grand Avenue East
Springfield, IL 62702

prepared by:
REACT Environmental Engineers
1733 South Vandeventer
St. Louis, MO 63110



REPORT OF QUALITY CONTROL AND ASSURANCE PLANS AND LIMITS OF LIABILITY

Project Title:

Site Activities Report

Sandoval Zinc Site

Limited Environmental Cleanup

Project Location:

Former Sandoval Zinc Smelter

Sandoval, Illinois

Project Number:

6536.04

As part of DWRA/REACT's internal QA/QC practices and procedures, this document has been reviewed and approved by the following:

Henry Stremlau, P.E.

Project Manager

D.W. (Rick) Ryckman, P.E., Sc.D., D.E.E.

Project Principal

REGISTERED
PROFESSIONAL
ENCINEER
OF

LIMITATIONS OF LIABILITY. Our liability, with respect to our findings and conclusions, is limited to the scope of work. We assume no liability under this report except in the case of our gross negligence, willful malfeasance or willful nonfeasance. We make no representations as to areas not sampled, techniques used and samples not tested.

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EXECUTIVE SUMMARY

This report summarizes the limited remediation of the Sandoval Zinc Site by REACT Environmental Engineers as authorized by the Illinois Environmental Protection Agency. Site activities included characterization and disposal of various wastes collected within the buildings on site, cleaning and demolition of two above ground petroleum storage tanks, clean up of potential fuel oil contamination, proper abandonment and sealing of monitoring wells, repair or replacement of site security fencing and pressure washing, dismantling and disposal of site buildings.

I INTRODUCTION

Sandoval Zinc Company, a former Illinois corporation, located off of U.S. Route 51, southeast of Sandoval, on Smelter Road, in Marion County, Illinois, operated as a secondary zinc smelting operation from at least 1940. Sandoval Zinc Company continued to operate the site until it was closed and abandoned in 1985. Compounds fed into the kilns were pure zinc, zinc oxide, zinc chloride, possibly aluminum chloride, and other trace metals. The Sandoval Zinc Company accepted materials containing hazardous substances, such as those at the Site, from third parties as a regular part of its business.

REACT was contracted by the Illinois Environmental Protection Agency to conduct a limited remediation of the Sandoval Zinc Site. Site work consisted of the following:

- Repair and replacement of fencing surrounding the site
- A site inventory of the waste materials to be removed from the site including all readily quantifiable volumes of materials in drums or other containers and in spills on the ground
- Proper abandonment and sealing of monitoring wells
- Removal and containerization of hazardous substances inside the buildings including zinc oxide waste and fuel oil contaminated soils
- Removal and containerization of miscellaneous non-hazardous wastes including plastic jugs, construction type debris, etc.
- Cleaning, demolition, and disposal of two above ground fuel oil storage tanks.
- Pressure washing, demolition and disposal of site buildings.
- Disposal and transport of site materials.

The total cost of these activities was \$387,000.

II DESCRIPTION OF SITE ACTIVITIES

Site activities are summarized below. Descriptions of tasks correlate to the Task Numbers used for budget purposes.

Task 200: Mobilization/Site Preparation/Demobilization

<u>Temporary Facilities</u>: Temporary facilities were established at the entrance to the site. The job site trailer was set up with telephone and electrical hookups. The job site trailer was used for project meetings, break area and project office. A portable toilet was also present at the site. Water for washing and decontamination was procured from a hydrant approximately 1/4 mile from the trailer. Drinking water was brought to the site daily in coolers with disposable cups.

An equipment trailer was located in the clean zone adjacent to the office trailer. This trailer was used for storing equipment and supplies and donning personal protective equipment.

<u>Decontamination Facilities</u>: The corridor between the clean zone and the work zone was designated as the decontamination zone. This area was used for decontamination of personnel and equipment. Wastewater collected from decontamination activities was added to product waste piles as a dust control measure. The entrance to the decontamination zone from the clean zone was equipped with a moveable barrier and warning signs.

Equipment and Waste Staging: Areas within the site were designated for equipment and waste storage. The contaminated soil staging area was designated as the west side of Building 6 as shown in Figure 1. Scrap metal was decontaminated and staged to the west of Building 6. Heavy equipment was staged either in the buildings where work was active or in the work zone adjacent to the decontamination zone. Portable equipment such as the pressure washer and the water pump were decontaminated daily and stored in the equipment trailer. Equipment used on site included:

- 4000 psi cold water pressure washer
- Rubber-tracked skid steer loader
- Backhoe loader
- Trackhoe excavator with hydraulic shear attachment
- Truck mounted auger rig
- Miscellaneous light trucks for site support needs
- Miscellaneous roll off waste containers
- Roll off transporter vehicles
- End dump tractor trailers
- Tandem dump truck
- Manlift
- Two inch diameter trash pump

Equipment arriving at the job site was inspected prior to use.



Demobilization: All equipment and vehicles leaving the work area were decontaminated prior to leaving the site. Rental equipment was inspected and included a certificate of decontamination. Upon completion of site activities, the office trailer and equipment trailers were removed from the site.

Task 400: Fence Repair and Replacement

Much of the site security fencing had been knocked down or destroyed. Therefore, a fencing subcontractor, Jarnigan Fencing, was selected to repair and/or replace damaged sections.

Wherever possible, existing fencing was repaired to original placement. Replacement fencing consisted of six foot chain link. Fence posts were buried three feet and set in concrete.

Task 500: Waste Inventory and Site Characterization

Various waste materials present at the site were sampled to determine quantities and characteristics with the ultimate goal of disposing of the materials in the most cost effective and environmentally sound manner available.

The first task required to complete the site inventory is to organize the waste into unique categories for characterization. The bulk materials were investigated and divided into four categories.

- #5 Fuel Oil Impacted Solids
- Zinc Oxide and Other Zinc-containing Bulk Material
- Plastic Containers
- Metal

Containerized materials were also noted. The containerized materials were identified and numbered.

- Drum #1
- Drum #2
- Drum #3
- Drum #4
- Drum #5

A physical description and quantities for each of the waste streams listed above were documented. The metal waste was considered to be readily and economically decontaminated and recycled as scrap metal. All other waste streams were representatively sampled and underwent compatibility testing. The minimum testing consisted of the following:

Ignitability (flashpoint)



- Classification as oxidizing or reducing agent
- Reactivity
- pH
- Concentration of total and reactive cyanide
- Solubility in water

Other laboratory tests were conducted on some of the waste streams as needed to satisfy disposal requirements. The majority of the sampling documentation is included in the August, 1998 Site Inventory Report.

The results for Fuel Oil 2 exceed the limits for the Underlying Hazardous Constituents list for land disposal (40 CFR 268.48), effective August 23, 1998 for both fluorene and phenanthrene. Therefore, additional grid sampling was proposed by REACT to further categorize the waste material. The product waste pile was divided into twelve 12' x 12' grids as shown in Figure 2 and representative samples were collected for each area. The results for nine areas indicated fluorene and phenanthrene below the regulatory limit of 3.4 ppm and 5.6 ppm, respectively. These are grid areas 1A, 1B, 2A, 2C, 3A, 3B, 4A, 4B and 4C.

Three grid areas were below the regulatory limit for fluorene, but exceeded the phenanthrene limit. These were Sample #1C (26.0 ppm), Sample #2B (12.0 ppm) and Sample #3C (26.0 ppm). Analytical results and chain-of custody are presented as Appendix B. The waste material from these three grids and from the previously sampled area (Fuel Oil 2) was required to undergo chemical oxidation treatment before landfilling.

Task 600: Abandon/Seal Monitoring Wells

Nineteen monitoring wells around the site were abandoned and sealed on July 23, 1998. REACT contracted with Roberts Environmental Drilling, an Illinois licensed well driller, to mobilize a truck mounted auger rig to the site. As much of the well material as possible (minimum of 3 feet) was pulled with the use of the auger rig. The holes were then grouted to the surface using bentonite and capped with native soil. The depth of the plugs ranged from 4 ft.-0 in. to 69 ft.-8 in. All wells abandoned were two inch PVC. The Illinois EPA Project Manager specified the wells requiring closure. Functional wells were not sealed. The location of the abandoned wells is shown in Figure 3.

Task 700: Collection and Containerization of Zinc Oxide Material

Zinc oxide material was collected from inside the buildings and stockpiled in a common loadout area (east end of Building 6). The material was first wetted for dust control, then transported to the loadout area using the rubber-tracked skid steer loader. Shovels, scrapers, squeegees and brooms were used in corners and other areas inaccessible to the loader. Collected wastewater from dust control and washing activities was added to the material stockpiles.

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Initially, respirators and disposable coveralls were worn during this task. Subsequent area particulate and airborne lead monitoring indicated that respiratory protection was not required for this task, but respirators were often used, especially when disturbing large piles of zinc oxide material.

Zinc oxide material was collected and stockpiled in the loadout area. The stockpiles were periodically wetted for dust control.

Task 800: Collection and Containerization of Fuel Oil Contaminated Material

Fuel oil contaminated material was previously collected and stockpiled in the east end of Building 6. The stockpiles were wetted and consolidated by REACT in preparation for waste disposal. Additional fuel oil contaminated material was collected in conjunction with the demolition and disposal of the above ground storage tanks (see Task 1000). This material was wetted, excavated and transported to the loadout area stockpiles. Five drums of fuel oil contaminated material from the previous cleanup were added to the stockpile of fuel oil contaminated material.

Worker protection and operating practices were similar as those used for the zinc oxide material. The fuel oil contaminated material was kept separate from the non-fuel oil contaminated material. The stockpiles were periodically wetted for dust control.

Task 900: Removal and Containerization of Miscellaneous Non-hazardous Material

<u>Plastic Containers:</u> Approximately 50 cubic yards of plastic containers were collected from Building 5, placed into rolloff dumpsters and compressed using the skid loader and front end loader. The material had been determined to be non-hazardous as part of the site characterization, so decontamination was not required. The material was loaded into two 20-yard dumpsters and transported to a sanitary landfill.

<u>Metal:</u> Scrap metal found within and adjacent to the buildings was collected and taken to the scrap metal collection pile east of Building 6. The metal was then decontaminated using the pressure washer. Clean metal was accepted by Foster Salvage for recycling.

Wood: Scrap wood from within and immediately adjacent to the buildings was collected and taken to a staging area west of Building 5. The wood was neatly stacked for future disposition.

<u>Trash:</u> Trash from within the buildings was collected in plastic bags for disposal as general refuse. Care was taken to separate trash from zinc oxide material and other hazardous waste.



Task 1000: Clean/Demolish/Dispose Above Ground Storage Tanks

Two above ground storage tanks were present at the site south of Building 5. The tanks were found to be empty with the exception of a small volume of sludge.

First, the tanks were cut open using a trackhoe with a hydraulic shear attachment. Once the inside of the tanks were accessible, the sludge was removed and containerized in steel drums. The insides of the tanks were cleaned using the pressure washer and detergent. Washwater was collected and placed on the stockpile of fuel oil contaminated material. The sludge was later incorporated into the fuel oil contaminated stockpiles for waste stream consolidation purposes.

Approximately 35 cubic yards of fuel oil contaminated soil was excavated and added to the material stockpile. The steel tanks were cut up into manageable pieces, decontaminated and accepted by Foster Salvage for recycling.

Task 1100: Waste/Recycling Transportation and Disposal

On the basis of representative sampling of materials (see Task 500), the hazardous waste on site was divided into three categories as described below.

- 1) Zinc oxide material collected from the interior of the site buildings: This is the material not related to the spilled fuel. This waste stream was considered hazardous due to TCLP lead levels in excess of 5 ppm. This material was sent to Zinc Corporation of America, 300 Frankfort Road, Monaca, PA 15061. The material was not considered to be hazardous waste, because it was being recycled. Four truckloads of this material were sent out on August 7, September 30, November 4 and December 2, 1998. The total amount was approximately 100 tons. The hauler was R & J Trucking, 8063 Southern Blvd., Youngstown, OH 44513. Trucking tickets and recycling agreement are included as Appendix D.
- 2) Zinc oxide material impacted by fuel oil which met PNA requirements for land disposal: This material was considered hazardous due to Lead TCLP in excess of 5 ppm (Hazardous Waste D008). The levels of phenanthrene and fluorene were below the limits for land disposal. This waste stream was sent to Peoria Disposal Company #1, 4349 Southport Road, Peoria, IL 61615. A total of nine truckloads were sent out on December 4, December 7 and December 8, 1998. The total amount of waste was approximately 225 tons of hazardous waste. The hauler was Midwest Sanitary Service, 333 N. Old St. Louis Road, Wood River, IL 62095. Hazardous waste manifests have been included as Appendix E.
- 3) Zinc oxide material impacted by fuel oil which failed to meet PNA requirements for land disposal: This material was considered hazardous due to Lead TCLP in excess of 5 ppm (Hazardous Waste D008). In addition, the levels of phenanthrene and/or fluorene exceeded the limits for land disposal. Therefore, this material was required to undergo chemical oxidation treatment prior to land filling. The hazardous waste was shipped to Michigan Disposal Waste



Treatment Plant, 49350 N I-94 Service drive, Belleville, MI 48111. A total of four truckloads were sent out on December 15 and December 17, 1998. The total amount of waste was approximately 99 tons. The hauler was Midwest Sanitary Service, 333 N. Old St. Louis Road, Wood River, IL 62095. Hazardous waste manifests have been included as Appendix F.

Dust control and PPE were used when loading trucks. Trucks hauling hazardous waste were lined with six-mil plastic and tarped to prevent contamination during transport. The trucks including the tires were decontaminated prior to leaving site.

Task 1300: Decontaminate/Demolish Site Buildings

The floors, walls and ceilings of the site buildings were pressure washed to decontaminate the buildings for demolition. To the extent possible solids and washwater from cleaning activities were collected and added to the hazardous waste stockpiles. Water usage was minimized and berms used when possible to retain washwater. A manlift was used by the pressure wash crew for reaching upper walls and ceilings. The skid loader was used to collect mixtures of solids and washwater.

When the building decontamination was complete, the Foster Salvage demolition crew dismantled the buildings. The predominant building material was metal (sheet metal and steel beams) which was collected by Foster Salvage for recycling. Other building materials such as wood and concrete were neatly stockpiled for future disposition.

The block building was demolished by REACT personnel. Some of the concrete blocks were used for filling in the pits in Building 5. The zinc oxide material was first removed from the pits and added to the stockpiles.

In conjunction with the demolition activities, four electrical transformers were decommissioned by Illinois Power. Associated power poles were also removed from the site by the power company.

III WEEKLY SITE ACTIVITY SUMMARY

Wednesday, May 27, 1998 - Friday, May 29, 1998

- 1. Mobilization / Site Preparation
- 2. Site Inspection
- 3. Waste Characterization

Thursday, June 4, 1998 - Friday, June 5, 1998

- 1. Mobilization / Site Preparation
- 2. Site Inspection

Monday, June 8, 1998 - Saturday, June 12, 1998

- 1. Mobilization / Site Preparation
- 2. Access Road Preparation
- 3. Cut and Clean Tanks / Collect Fuel Oil Contaminated Soil
- 4. Locate Monitoring Wells
- 5. Install Temporary Fencing
- 6. Waste Characterization

Monday, June 15, 1998 - Friday, June 19, 1998

- 1. Access Road Preparation
- 2. Cut and Clean Tanks / Collect Fuel Oil Contaminated Soil
- 3. Locate Monitoring Wells
- 4. Cut Metal in Buildings
- 5. Collect and Stockpile Zinc Oxide Material

Monday, June 22, 1998 - Friday, June 26, 1998

- 1. Access Road Preparation
- 2. Cut and Clean Tanks / Collect Fuel Oil Contaminated Soil
- 3. Collect and Decontaminate Miscellaneous Scrap Metal
- 4. Collect and Stockpile Zinc Oxide Material



Monday, June 29, 1998 - Thursday, July 2, 1998

- 1. Decontaminate and Dispose of Plastic Containers
- 2. Cut and Clean Tanks / Collect Fuel Oil Contaminated Soil
- 3. Collect and Decontaminate Miscellaneous Scrap Metal
- 4. Collect and Stockpile Zinc Oxide Material

Monday, July 6, 1998 - Friday, July 10, 1998

- 1. Collect and Decontaminate Miscellaneous Scrap Metal
- 2. Collect and Stockpile Zinc Oxide Material

Wednesday, July 22, 1998 - Friday, July 24, 1998

- 1. Access Road Preparation
- 2. Monitoring Well Closure
- 3. Collect and Stockpile Zinc Oxide Material

Monday, August 3, 1998 - Friday, August 7, 1998

- 1. Repair and Install Fencing
- 2. Collect and Stockpile Zinc Oxide Material

Monday, August 31, 1998 - Friday, September 4, 1998

1. Decontaminate Buildings for Demolition

Tuesday, September 8, 1998 - Friday, September 11, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling

Monday, September 14, 1998 - Friday, September 18, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling



Monday, September 21, 1998 - Friday, September 25, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling

Monday, September 28, 1998 - Friday, October 2, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Load Out Zinc Oxide Waste

Monday, October 5, 1998 - Saturday, October 10, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Collect and Decontaminate Miscellaneous Scrap Metal

Monday, October 12, 1998 - Friday, October 16, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling

Monday, October 19, 1998 - Friday, October 23, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Collect and Stockpile Zinc Oxide Material

Monday, October 26, 1998 - Friday, October 30, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling

Monday, November 2, 1998 - Friday, November 6, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Load Out Zinc Oxide Waste

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Monday, November 9, 1998 - Thursday, November 12, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Waste Characterization
- 4. Demolish Block Building

Monday, November 16, 1998 - Saturday, November 20, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Collect and Stockpile Wood Debris

Monday, November 23, 1998 - Wednesday, November 25, 1998

- 1. Decontaminate Buildings for Demolition
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Collect and Stockpile Wood Debris
- 4. Collect and Stockpile Concrete Block Debris

Monday, November 30, 1998 - Friday, December 4, 1998

- 1. Demolish Buildings / Collect Metal for Recycling
- 2. Access Road Preparation
- 3. Wet, Collect and Stockpile Zinc Oxide Material
- 4. Load Out Zinc Oxide Waste

Monday, December 7, 1998 - Friday, December 11, 1998

- 1. Demolish Buildings / Collect Metal for Recycling
- 2. Demobilize Equipment
- 3. Wet, Collect and Stockpile Zinc Oxide Material
- 4. Load Out Zinc Oxide Waste
- 5. Wet, Collect and Stockpile Fuel Oil Contaminated Material
- 6. Collect and Stockpile Wood Debris

Monday, December 14, 1998 - Friday, December 18, 1998

- 1. Demolish Buildings / Collect Metal for Recycling
- 2. Decontaminate Buildings for Demolition
- 3. Wet, Collect and Stockpile Fuel Oil Contaminated Material
- 4. Load Out Fuel Oil Contaminated Material
- 5. Fill Pit in Building #5

Monday, December 21, 1998 - Wednesday, December 23, 1998

- 1. Demolish Buildings / Collect Metal for Recycling
- 2. Decontaminate Buildings for Demolition
- 3. Fill Pit in Building #5

Monday, December 28, 1998 - Thursday, December 31, 1998

- 1. Demolish Buildings / Collect Metal for Recycling
- 2. Fill Pit in Building #5

Monday, January 4, 1999 - Wednesday, January 6, 1999

- 1. Snow and Ice Removal
- 2. Demolish Buildings / Collect Metal for Recycling
- 3. Fill Pit in Building #5

Monday, January 11, 1999 - Friday, January 15, 1999

- 1. Snow and Ice Removal
- 2. Demolish Buildings / Collect Metal for Recycling

Monday, January 18, 1999 - Friday, January 22, 1999

- 1. Demolish Buildings / Collect Metal for Recycling
- 2. Demobilize Equipment and Equipment Trailer

Monday, January 25, 1999 - Friday, January 29, 1999

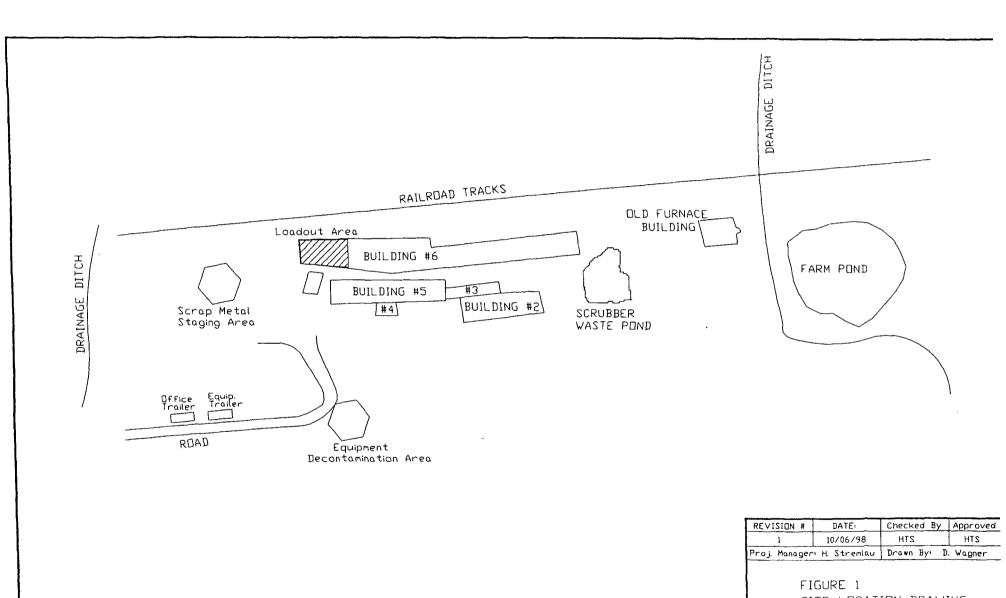
- 1. Demolish Buildings / Collect Metal for Recycling
- 2. Disconnect Utilities / Demobilize Office Trailer

Tuesday, February 2, 1999 - Thursday, February 4, 1999

1. Collect Metal for Recycling

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FIGURES



NOT TO SCALE

SITE LOCATION DRAWING SANDOVAL ZINC SITE



PROJECT NUMBER SOFTWARE DRAWING NAME
6536.04 AutoCAD Circontour/sandov

1 A	1 B	10
2A	2B	2C
3A	3 B	30
4A	4B	40
	Pre	viously onled



Indicates fluorene and/or phenanthrene over land ban limits Previously Sampled Area

Note: Grid areas are approximately 12' x 12'



SCALE: Not to Scale FIGURE 2 LOADOUT AREA SAMPLING GRID



PROJECT #6536.04 Sandoval Zinc Sandoval, Illinois

APPENDIX A CERTIFICATIONS OF RECYCLING -- ABOVE GROUND TANKS



St. Louis, MO 63110-2223 314-772-2326 314-772-6610 FAX REACT@mvp.net 800-325-1398 24 Hour

1733 S. Vandeventer Avenue

REACT Project No. 6536.04

Foster's Salvage East First Street Box 473 Beckmeyer, IL 62219

RE: Two ASTs from the Sandoval Zinc site Sandoval, IL

Dear Sirs:

The two above ground fuel storage tanks referenced above, which are being delivered for salvage (scrap), originally contained fuel oil and have been scraped and washed of residues and wiped dry. They do not contain any residues.

Please sign and date this letter on the appropriate line below, showing your receipt of these tanks.

Tank relinquished by:

Shires K. Lexiting

Tank accepted by:

<u>___</u>

Date 6/25/

APPENDIX B ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY -- GRID SAMPLES

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PAGE :

(309)692-9688 PEL

P.O. BOX 9071 PEORIA, IL 61612

SAMPLE	9811055	3
ANALYTICAL	REPORT	FORM

TO REACT ENVIRONMENTAL ENGR DATE COLLECTED 11/10/98 SALES WOOLERY D L

1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110553
DATE DUE 11/23/98 PDC #

ST LOUIS MO 631102223

DATE COMPLETE 11/24/98 PERM # DATE LOGGED IN 11/11/98 P.O. # 6536.04

PHONE# (314)772-2326 PRJ MGR SPIVA G L VERIFIED BY G L S CUST # 0201184

COLOR

PHYSICAL STATE SOLID NUMBER/PHASES 1

DESCRIPTION ZINC OXIDE SAMPLE #1A

≀EMARKS

CHAIN OF CUSTODY YES

ATTN HENRY STREMLAU

	REPORTING	SAMPLE	UNIT OF	DATE
TEST NAME	LEVEL	RESULT	MEASURE	ANALYZED

Fluorene/Phenanthrene PACKAGE METHOD :

Tluorene Phenanthrene Prep Base/Neutrals Soil

ug/kg ug/kg <3300 S <3300 S PROCESS DONE

11/22/98 11/22/98 11/20/98

JOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER

11-24-98-

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P.O. BOX 9071 TEL (309)692-9688 PEORIA, IL 61612

SAMPLE 98110554 ANALYTICAL REPORT FORM

TO REACT ENVIRONMENTAL ENGR DATE COLLECTED 11/10/98 SALES WOOLERY D L 1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110554

DATE DUE 11/23/98 PDC #

ST LOUIS

DATE COMPLETE 11/24/98 PERM #

MO 631102223

DATE LOGGED IN 11/11/98 P.O. # 6536.04

ATTN HENRY STREMLAU

PHONE# (314)772-2326

PRJ MGR SPIVA G L

VERIFIED BY G L S

CUST # 0201184

PHYSICAL STATE SOLID NUMBER/PHASES 1 COLOR

DESCRIPTION ZINC OXIDE SAMPLE #1B

REMARKS

CHAIN OF CUSTODY YES

TEST NAME	REPORTING	SAMPLE	UNIT OF	DATE
	LEVEL	RESULT	MEASURE	ANALYZED
Fluorene/Phenanthrene	PACKAGE METHO	DD :		11 /00 /00

<3300 S ug/kg 5500 S ug/kg 11/22/98 Fluorene 5500 S 11/22/98 ?henanthrene PROCESS Prep Base/Neutrals Soil DONE 11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER 11-24-98

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	7	Я		4	4		

PAGE :

TEL (309)692-9688

P.O. BOX 9071 PEORIA, IL 61612

SAMPLE 98110555

ANALYTICAL REPORT FORM

TO REACT ENVIRONMENTAL ENGR DATE COLLECTED 11/10/98 SALES WOOLERY D L 1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110555

ST LOUIS MO 631102223 ATTN HENRY STREMLAU DATE DUE 11/23/98 PDC # DATE COMPLETE 11/24/98 PERM #

DATE LOGGED IN 11/11/98 P.O. # 6536.04 PHONE# (314)772-2326 PRJ MGR SPIVA G L VERIFIED BY G L S CUST # 0201184

COLOR

PHYSICAL STATE SOLID NUMBER/PHASES 1

DESCRIPTION ZINC OXIDE SAMLE #1C

REMARKS

CHAIN OF CUSTODY YES

TEST NAME	REPORTING LEVEL	SAMPLE RESULT	UNIT OF MEASURE	DATE ANALYZED
Fluorene/Phenanthrene	PACKAGE METHO	DD :		
Fluorene Phenanthrene Prep Base/Neutrals Soil	2	<3300 S F 26000 S F DONE	ug/kg ug/kg PROCESS	11/22/98 11/22/98 11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJÈCT MANAGER 11-24-98

PDC LABORATORIES, INC.

11/24/98 PDC LABORATORIES, INC. 18:44 ENVIRONMENTAL/ANALYTICAL SERVICES

PAGE :

TEL (309)692-9688

P.O. BOX 9071

PEORIA, IL 61612

SAMPLE	9811055	56
ANALYTICAL	REPORT	FORM

TO REACT ENVIRONMENTAL ENGR DATE COLLECTED 11/10/98 SALES WOOLERY D L

1733 S VANDEVENTER AVE. DATE COLLECTED 11/10/96 SALES WOOLER1 D 1
1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110556

DATE DUE 11/23/98 PDC #

DATE COMPLETE 11/24/98 PERM #

MO 631102223 DATE LOGGED IN 11/11/98 P.O. # 6536.04

ATTN HENRY STREMLAU PHONE# (314)772-2326 PRJ MGR SPIVA G L

VERIFIED BY G L S CUST # 0201184

COLOR PHYSICAL STATE SOLID NUMBER/PHASES 1

DESCRIPTION ZINC OXIDE SAMPLE #2A

REMARKS

CHAIN OF CUSTODY YES

TEST NAME	REPORTING	SAMPLE	UNIT OF	DATE
	LEVEL	RESULT	MEASURE	ANALYZED
Fluorene/Phenanthrene	PACKAGE METH	IOD :		
Fluorene		<3300 S F	ug/kg	11/22/98
Phenanthrene		5000 S F	ug/kg	11/22/98
Prep Base/Neutrals Soil		DONE	PROCESS	11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER ((-24-98

PDC LABORATORIES, INC. ENVIRONMENTAL/ANALYTICAL SERVICES

PAGE :

TEL (309)692-9688

P.O. BOX 9071 PEORIA, IL 61612

SAMPLE	9811055	57
ANALYTICAL	REPORT	FORM

TO REACT ENVIRONMENTAL ENGR DATE COLLECTED 11/10/98 SALES WOOLERY D L 1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110557

DATE DUE 11/23/98 PDC #

ST LOUIS

MO 631102223

DATE COMPLETE 11/24/98 PERM #

ATTN HENRY STREMLAU

DATE LOGGED IN 11/11/98 P.O. # 6536.04 PHONE# (314)772-2326 PRJ MGR SPIVA G L VERIFIED BY G L S CUST # 0201184

COLOR

PHYSICAL STATE SOLID NUMBER/PHASES 1

DESCRIPTION ZINC OXIDE SAMPLE #2B

REMARKS

CHAIN OF CUSTODY YES

TEST NAME

REPORTING REPORTING SAMPLE UNIT OF LEVEL RESULT MEASURE

DATE ANALYZED

Fluorene/Phenanthrene PACKAGE METHOD :

Fluorene ?henanthrene

<3300 S ug/kg 12000 S ug/kg

11/22/98 11/22/98

Prep Base/Neutrals Soil

DONE

PROCESS

11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAĞER

11-24-98

PDC LABORATORIES, INC. ENVIRONMENTAL/ANALYTICAL SERVICES

PAGE :

ΓEL (309)692-9688

P.O. BOX 9071 PEORIA, IL 61612

182 (30)/052 5000		PECKIA, II OI
	SAMPLE 98110558	
	ANALYTICAL REPORT FORM	
TO REACT ENVIRONMENTAL ENGR	DATE COLLECTED 11/10/98	SALES WOOLERY D L
1733 S VANDEVENTER AVE.	DATE RECEIVED 11/11/98	SAMP # 98110558
·	DATE DUE 11/23/98	PDC #
ST LOUIS	DATE COMPLETE 11/24/98	PERM #
MO 631102223	DATE LOGGED IN 11/11/98	P.O. # 6536.04
ATTN HENRY STREMLAU	PHONE# (314)772-2326	PRJ MGR SPIVA G L
	VERIFIED BY G L S	CUST # 0201184
COLOR PHYSICA	AL STATE SOLID NUMBER/	PHASES 1
DESCRIPTION ZINC OXIDE SAME	PLE #2C	

REMARKS

CHAIN OF CUSTODY YES

TEST NAME	REPORTING	SAMPLE	UNIT OF	DATE
	LEVEL	RESULT	MEASURE	ANALYZED
Fluorene/Phenanthrene	PACKAGE METHO	DD :		
Fluorene	5	3300 S	ug/kg	11/22/98
Phenanthrene		5000 S	ug/kg	11/22/98
Prep Base/Neutrals Soil		OONE	PROCESS	11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER 11-24-98

PDC LABORATORIES, INC.

PAGE :

EL (309)692-9688 ENVIRONMENTAL/ANALYTICAL SERVICES

P.O. BOX 9071 PEORIA, IL 61612

SAMPLE 98110559 ANALYTICAL REPORT FORM

1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110559

MO 631102223 ITTN HENRY STREMLAU

ST LOUIS

TO REACT ENVIRONMENTAL ENGR DATE COLLECTED 11/10/98 SALES WOOLERY D L

DATE DUE 11/23/98 PDC # DATE COMPLETE 11/24/98 PERM #

DATE LOGGED IN 11/11/98 P.O. # 6536.04

PHONE# (314)772-2326 PRJ MGR SPIVA G L VERIFIED BY G L S CUST # 0201184

PHYSICAL STATE SOLID NUMBER/PHASES 1

DESCRIPTION ZINC OXIDE SAMPLE #3A

EMARKS

CHAIN OF CUSTODY YES

-~					
TEST	NAME	LEVEL	RESULT	MEASURE	ANALYZED
		REPORTING	SAMPLE	UNIT OF	DATE

Fluorene/Phenanthrene PACKAGE METHOD :

Fluorene ?henanthrene Prep Base/Neutrals Soil

<3300 S F ug/kg <3300 S F ug/kg PROCESS DONE

11/22/98 11/22/98 11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER

11-24-98

PDC LABORATORIES, INC. ENVIRONMENTAL/ANALYTICAL SERVICES

PAGE :

11/22/98

11/22/98

11/20/98

1

JEL (309)692-9688

P.O. BOX 9071 PEORIA, IL 61612

	SAMPLE 98110560	
	ANALYTICAL REPORT FORM	
TO REACT ENVIRONMENTAL ENGR		SALES WOOLERY D L
1733 S VANDEVENTER AVE.	DATE RECEIVED 11/11/98	SAMP # 98110560
	DATE DUE 11/23/98	PDC #
ST LOUIS	DATE COMPLETE 11/24/98	PERM #
MO 631102223	DATE LOGGED IN 11/11/98	P.O. # 6536.04
ATTN HENRY STREMLAU	PHONE# (314)772-2326	
	VERIFIED BY G L S	CUST # 0201184
COLOR PHYSICAL	L STATE SOLID NUMBER/E	PHASES 1
DESCRIPTION ZINC OXIDE SAMPI	•	

TEST NAME	REPORTING	SAMPLE	UNIT OF	DATE
	LEVEL	RESULT	MEASURE	ANALYZED

Fluorene/Phenanthrene PACKAGE METHOD :

CHAIN OF CUSTODY YES

<3300 S F ug/kg Tluorene ?henanthrene <3300 S F ug/kg Prep Base/Neutrals Soil DONE PROCESS

JOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

11-24-98

1	1	/	2	5	/	9	8
	7	2		5	4		

SAMPLE 98110561

PAGE :

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ST LOUIS

MO 631102223 ATTN HENRY STREMLAU P.O. BOX 9071 PEORIA, IL 61612

ANALYTICAL REPORT FORM					
TO REACT ENVIRONMENTAL ENGR	DATE COLLECTED 11/10/98	SALES WOOLERY D L			
אַנאַ סעראַערערערער פּעראַערערער אַנדי	מאַרע סברבדעבה 11/11/00	CAMD # 00110561			

1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110561
DATE DUE 11/23/98 PDC #

DATE COMPLETE 11/25/98 PERM #

DATE LOGGED IN 11/11/98 P.O. # 6536.04 PHONE# (314)772-2326 PRJ MGR SPIVA G L VERIFIED BY B K D CUST # 0201184

PHYSICAL STATE SOLID NUMBER/PHASES 1

DESCRIPTION ZINC OXIDE SAMPLE #3C

REMARKS

CHAIN OF CUSTODY YES

TEST NAME	REPORTING	SAMPLE	UNIT OF	DATE
	LEVEL	RESULT	MEASURE	ANALYZED
Fluorene/Phenanthrene	PACKAGE METHO	DD :		
Fluorene	2	3300 S F	ug/kg	11/25/98
Phenanthrene		6000 S F	ug/kg	11/25/98
Prep Base/Neutrals Soil		ONE	PROCESS	11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER

PDC LABORATORIES, INC. ENVIRONMENTAL/ANALYTICAL SERVICES

PAGE :

11/20/98

FEL (309)692-9688

CHAIN OF CUSTODY YES

P.O. BOX 9071 PEORIA, IL 61612

PROCESS

	SAMPLE 98110562	,
	ANALYTICAL REPORT FORM	
TO REACT ENVIRONMENTAL ENGR	DATE COLLECTED 11/10/98	SALES WOOLERY D L
1733 S VANDEVENTER AVE.	DATE RECEIVED 11/11/98	SAMP # 98110562
	DATE DUE 11/23/98	PDC #
ST LOUIS	DATE COMPLETE 11/24/98	PERM #
MO 631102223	DATE LOGGED IN 11/11/98	P.O. # 6536.04
ATTN HENRY STREMLAU	PHONE# (314)772-2326	PRJ MGR SPIVA G L
	VERIFIED BY G L S	CUST # 0201184
COLOR PHYSICAI	L STATE SOLID NUMBER/1	PHASES 1
DESCRIPTION ZINC OXIDE SAMPIREMARKS	LE #4A	

TEST NAME	REPORTING	SAMPLE	UNIT OF	DATE
	LEVEL	RESULT	MEASURE	ANALYZED
Fluorene/Phenanthrene	PACKAGE METHO	D :		
Fluorene		:3300 S	ug/kg	11/22/98
Phenanthrene		:3300 S	ug/kg	11/22/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

DONE

PROJECT MANAGER 11-24-9

Prep Base/Neutrals Soil

Ĺ	1	/	2	4	/	9	8
	1	Q		4	4		

PAGE: 1

P.O. BOX 9071 PEORIA, IL 61612

TEL (309)692-9688

SAMPLE 98110563 ANALYTICAL REPORT FORM

TO REACT ENVIRONMENTAL ENGR DATE COLLECTED 11/10/98 SALES WOOLERY D L 1733 S VANDEVENTER AVE. DATE RECEIVED 11/11/98 SAMP # 98110563

DATE DUE 11/23/98 PDC # ST LOUIS

MO 631102223

DATE COMPLETE 11/24/98 PERM #

DATE LOGGED IN 11/11/98 P.O. # 6536.04

PHONE# (314)772-2326 PRJ MGR SPIVA G L

VERIFIED BY G L S CUST # 0201184 YTTN HENRY STREMLAU

PHYSICAL STATE SOLID NUMBER/PHASES 1 COLOR

DESCRIPTION ZINC OXIDE SAMPLE #4B

REMARKS

CHAIN OF CUSTODY YES

				~
TEST NAME	LEVEL	RESULT	MEASURE	ANALYZED
	REPORTING	SAMPLE	UNIT OF	DATE

Fluorene/Phenanthrene PACKAGE METHOD :

<3300 S F ug/kg <3300 S F ug/kg 11/22/98 Fluorene 11/22/98 ?henanthrene DONE PROCESS 11/20/98 Prep Base/Neutrals Soil

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER

PDC LABORATORIES, INC. ENVIRONMENTAL/ANALYTICAL SERVICES

PAGE :

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P.O. BOX 9071 PEORIA, IL 61612

		SAMP	LE 981	10564		
		ANALYTI	CAL REPO	ORT FORM		
TO REACT ENVIRONMENTA	L ENGR	DATE CO	LLECTED	11/10/98	SALES WO	DOLERY D L
1733 S VANDEVENTER	AVE.	DATE REG	CEIVED	11/11/98	SAMP #	98110564
		DATE DUI	Ξ	11/23/98	PDC #	
ST LOUIS		DATE COM	MPLETE	11/24/98	PERM #	
MO 631102223		DATE LOC	GGED IN	11/11/98	P.O. #	6536.04
ATTN HENRY STREMLAU		PHONE#	(314)772	2-2326	PRJ MGR	SPIVA G L
		VERIFIE	D BY G I	ı S	CUST #	0201184
COLOR	PHYSICAL	STATE S	SOLID	NUMBER/E	PHASES 1	

DESCRIPTION ZINC OXIDE SAMPLE #4C

REMARKS

CHAIN OF CUSTODY YES

TEST NAME	REPORTING	SAMPLE	UNIT OF	DATE
	LEVEL	RESULT	MEASURE	ANALYZED
Fluorene/Phenanthrene	PACKAGE METHO	DD :		
Fluorene		<3300 S	ug/kg	11/22/98
Phenanthrene		<3300 S	ug/kg	11/22/98
Prep Base/Neutrals Soil		DONE	PROCESS	11/20/98

NOTE 1: ALL ANALYSES ARE CONDUCTED UTILIZING RECOMMENDED USEPA AND IEPA METHODS

PROJECT MANAGER

11-24-98

Main Vanisher or or barren control

A	=	The presence of this analyte was confirmed using a second column but there was a disparity (>40% relative percent				
		difference) between the two sets of results. The higher of the two results has been reported.				
В	=	present in the method blank at				
C	=	Compound's identification confirmed by GC-MS.				
E	=	Concentration exceeds the instrument calibration range of at a dilution. Sample was not				
		reanalyzed at a larger dilution due to the level of constituents and regulatory/quality control guidelines.				
F	=	Internal standard area outside acceptable QC criteria on duplicate analysis.				
H	=	This test was performed after expiration of the appropriate regulatory/advisory "hold time".				
K	=	The relative standard deviation (RSD) for this analyte failed to meet the %RSD acceptance criteria for				
		the initial calibration. The mean %RSD for all the analytes included in the initial calibration was %RSD				
		which is within acceptance limits.				
L	=	The % difference for this analyte failed to meet the % acceptance criteria for the calibration verification				
		standard. The mean % difference for all the analytes included in the calibration verification standard was				
		% which is within acceptance limits.				
P	=	Insufficient sample preservation noted at the time of the test.				
Q	=	Sample matrix spike recovery outside acceptance limits. Method control check sample recoveries were acceptable. Data				
		was generated with the analytical method in control but sample associated matrix effects were evident.				
R	=	Surrogate recovery was outside matrix acceptance criteria due to the presence of a visible matrix effect in the volatile GC-				
		MS spectrum. The surrogate (one of three) recovered within 50% of the true value.				
S	=	Surrogate compound diluted below reliable quantitation level due to matrix interferences.				
T	=	Surrogate recovery was outside matrix acceptance criteria in initial analysis. Sample was re-extracted (if required by the				
		method), reanalyzed and recovery was again outside matrix acceptance criteria. Data was generated with the analytical				
		method in control but sample associated matrix effects were evident.				
V	=	Continuing calibration verification standard failed QC criteria on two independent batch analyses.				
W	=	Duplicate analysis associated with the analytical batch failed acceptance criteria. Data was generated with the analytical				
		method in control but sample associated matrix effects were evident.				
Y	==	Surrogate recovery was outside matrix acceptance criteria in initial analysis. Sample was re-extracted (if required by the				
		method) and reanalyzed after the expiration of the regulatory hold time and a value of was obtained.				
NA	=	Not Analyzed.				
NR	=	The reportable test is not required due to the level of related constituents and/or regulatory/quality control guidelines.				
X	=					

FUL LABURATORIES, INC. 2231 W. ALTORFER DRIVE PEORIA, IL 61615

. HONE " (309) 692-9688 /

(309) 692-9689

CHAIN OF CUSTODY RECORD 9840565

(SHIPPING ADDRESS ONLY) PLEASE PRINT. INSTRUCTIONS ON REVERSE SIDE CORRESPONDING WITH CIRCLED NUMBERS. CLIENT PROJECT NUMBER P.O. NUMBER MEANS OF SHIPPING REACT / IEPA 6536.04 Fed Ex **ANALYSIS** DATE SHIPPED PHONE NUMBER FAX NUMBER DESIRED 1733 S. VANdeventer 314-772-2326 314-772-6610 11/10/98 MATRIX STATE St. LOUIS, MO. 63108 SAMPLER (PLEASE PRINT) JAMES R. Jenkins CONTACT PERSON HENRY Stremlau SAMPLER'S SIGNATURE Mus DATE TIME (2) 졄 SAMPLE DESCRIPTION COLLECTED COLLECTED **(6)** REMARKS Sample# 1A. 11/10/98 ZINC Oxide X X 11 11/10/98 X × 15 X 1.1 11/10/98 Χ × 11 2A 11/10/98 X 11 X X # 2B ٠, 11/10/98 X 11 Χ # ac 11/10/98 11 Х 11 1 X 11/10/98 Х # 3B 11 ĸ # 3C 11 X # 4A 11/10/98 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (7) (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) (8 RUSH RESULTS VIA: (PLEASE CIRCLE) FAX PHONE FAX# IF DIFFERENT FROM ABOVE: PHONE# IF DIFFERENT FROM ABOVE: RECEIVED BY: (SIGNATURE) RELINQUISHED, BY; (GIGNATURE) Discrepancies between sample (9) 11/10/98 labels and COC record Samples were: (P) or N Chilled Received on ice RELINQUISHED BY: (SIGNATURE) RECEIVED FOR LABORATORY BY: (SIGNATURE) Received in good condition or N Received in proper container Received within holding time YELLOW-LAB COPY PINK-SAMPLER'S COP WHITE-REPORT COPY

ORATORIES, INC. ALTORFER DRIVE (309) 692-9689 (309) 692-9689	(bag) c	HAIN OF							LAB NUMBER(S		
DRESS ONLY) PROJECT						ORRESPONDING	WITH CIRCLED	NUMBERS.	· , · · , · · · , · · · ·	PAGE OF	
PORT / TEPA 6530	- CL	O. NUMBER	MEANS				_ /	/ /	/ / /		
EGG / 12111 (0) 50	7.07		1 20	SHIPPE	<u> X</u>	ANALYSI DESIRED					
PROJECT 6536 733 S. Vandevetter 314-7	72-2320 310	4-772-6610	11/	10/9	\$	(5)	, / /		///	////	
St. Louis, Mo. 63108 (PLEASE PRI	m James R	?. Inkins	5	MATR 4	1		//,	//			
St. Louis, Mo. 63108 SAMPLER PRI THENERY STYEM LAY SAMPLER'S SIGNATURE	But 16	<u> </u>			NDRS NDRS	1/2		//			İ
SAMPLE DESCRIPTION	DATE	COLLECTED 3	COMPOSITE	88	OTHER TOTAL NUMBER OF CONTAINERS	31/42				(6) REMARKS	
1c Oxide Sample # 48	11/10/98	X		X	1	X					
11 11 # 4C-	11/10/98	X		X	1	Χ					
			 			!					
				1-1							
		-			_						
		-	-	-							
VAROUND TIME REQUESTED (PLEASE CIRCLE)	NORM.	AL) RUSH	1	Spec	od Inetiruo	ctions: #Cys	B Bh	3/20-	Joseph F	ron ster	e]
I TAT IS SUBJECT TO POC LABS APPROVAL AND SURCE + RESULTS VIA: (PLEASE CIRCLE)		PHON	(8			to a	nother	Ja		7.6.6. 2.3.9.	81
	DIFFERENT FROM			<u> </u>	·····						
RELINQUISHED BY (SIGNATURE)	0/98	RECEIVED BY:	(SIGNATUR	Ε)		labels of Somples	incles between mere:	aample Y	or N Hibtes:		
RELINQUISHED BY: (SIGNATURE)	198 RECE	WED FOR LABORAT	TORY BY: (SIGNATU	RE)	Receive	d an ice d in good cond	lilion 🛞	or N		
# 454	Ph 16	MUN A	ry				d in proper co d within holdin		or N		······
RT COPY YELLOW-LAB COPY PINK-SAMPLER'S CO	oğ - J	11 70									

APPENDIX C CERTIFICATES OF WELL CLOSURE

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

x ion	form shall be submitted to this Department or the local toring well is senied. Such wells are to be scaled not moreoments in the Water Well Construction Code.				
1.	Ownership (Name of Controlling Party) IEPA				
2.	Well Location: # 1 502 E. Mississi Address - Lot Number	ppi Ave. SA	audoual, I	L. MARIO.	N 62882
	General Description: Township 2 (N)(S)	Range	(E)(W)	Section	17
	Quarter of the Qu	narter of the	Quart	er	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				·
5.	Type of Well: Bored Drilled				
6.	Total Depth 191-84 Diameter	(inches) 2'			
7.	Formation clear of obstruction Ves	No			
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from O	to 19'-8"	_ft.	
	Kind of plug	from	to	_ft.	
	Filled with	from	to	_ft.	
	Kind of plug	from	to	_ft.	
	Filled with	from	_to	_ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	✓ Yes _	No		
10.	Date well was sealed: Month July Day	23 Year	1998.		
11.	Licensed water well driller or other person approved by			aling.	
	Roberts Environmental Drilling Name 1107 S. Mulberry	Complete Licen			
	1107 5. Mulberry Address	Millstad City	<u>Y</u>	IL. 6226 State/Zip	2

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

moui	form shall be submitted to this Department or the local health foring well is scaled. Such wells are to be scaled not more that rements in the Water Well Construction Code.				
1.	Ownership (Name of Controlling Party) IEPA				
2.	Well Location: #2 502 E. Mississippi A				
	General Description: Township Z (N)(S)	Range	(E)(W)	Section	7
	Quarter of theQuarter	of the	Quarter	•	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
5.	Type of Well: Bored Other				
6.	Total Depth 14 - 6" Diameter (inche	s) <u>2</u> "		_	
7.	Formation clear of obstructionYesNo				
8.	DETAILS OF PLUGGING				
	Filled with Bentonite fr (cement or other materials)	om	to 14'-6"	ît.	
	Kind of plug from	om	_tof	t.	
	Filled withfr	om	_toi	t.	
	Kind of plug from)m	_tof	t.	
	Filled withfree	om	_tof	t.	
	Kind of plug from	om	_tofi	Ŀ.	
9.	CASING RECORD: Upper 3 feet of casing removed	Yes	No		
10.	Date well was sealed: Month July Day 23	Year_	1998 .		
11.	Licensed water well driller or other person approved by the L			ing.	
	Roberts Environmental Drilling Name	092-000 Complete Licens			

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

Address

MOD.	form shall be submitted to this Department or the local health department not more than 30 days after a water well, be itoring well is scaled. Such wells are to be scaled not more than 10 days after they are abandaned in accordance with the irentents in the Water Well Construction Code.
1.	Ownership (Name of Controlling Party) IEPA
2.	Well Location: #3 502 E. Mississippi Ave Sandoval Marion 6288 Address - Lot Number City County
	General Description: Township Z (N)(S) Range [(E)(W) Section 17
	Quarter of theQuarter
3.	Year Drilled
4.	Drilling Permit Number (and date, if known)
5.	Type of Well: Bored Other
6.	Total Depth 15'5" Diameter(inches) 2"
7.	Formation clear of obstructionYesNo
8.	DETAILS OF PLUGGING
	Filled with Bentonite from 0 to 15-5" ft. (cement or other materials)
	Kind of plug from to ft.
	Filled withtoft.
	Kind of plugtott.
monitoring well is sealed. Such wells are to be sealed not mor requirements in the Water Well Construction Code. 1. Ownership (Name of Controlling Party) IEPA 2. Well Location: #3	Filled withtott.
	Kind of plug from to ft.
9.	CASING RECORD: Upper 3 feet of casing removed
0.	Date well was sealed: Month July Day 23 Year 1998.
1.	Licensed water well driller or other person approved by the Department performing well sealing.
	Roberts Environmental Drilling 092-006865 Name Complete License Number
	1107 5 Mulherey Millstadt II. 62360

State/Zip

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

moni	toring well is scaled. Such wells are to be scaled not me	re than 36 days of	ter they are abasic	lened in accordan	
1.	Ownership (Name of Controlling Party) IEPF	7			
2.	Well Location: #4 502 E. Mississ, Address - Lot Number	ippi Aue.	SANDOVA City	MARION County	62882
	General Description: Township 2 (N)(8)	Range	(E)(W)	Section	17
	Quarter of theQ	uarter of the	Quai	ter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				-
5.	Type of Well: Bored Drilled	Other			_
6.	Total Depth $ -2'' $ Diameter	(inches) λ			
7.	Formation clear of obstruction Yes	No			
8.	DETAILS OF PLUGGING				
nonitoring well is scaled. Such wells are to be scaled not requirements in the Water Well Construction Code 1. Ownership (Name of Controlling Party) IE. 2. Well Location: #4 502 E. Missing Address - Lot Number General Description: Township 2 (Notation Party)	from C	to 61-2	<u>"</u> ft.		
	Kind of plug	from	to	_ft.	
	Filled with	from	to	_ft.	
	Kind of plug	from	to	_ft.	
	Filled with	from	to	_ft.	
	Kind of plug	from	to	_ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	Yes	No		
10.	Date well was sealed: Month July Day	<u>23</u> Ye	ar <u>1998</u> .		
1. Ownership (Name of Controlling Party) \(\overline{IEPA} \) 2. Well Location: \(\frac{\pi}{Address} \) Lot Number \(\text{General Description:} \) Township \(\text{Z (N)(S)} \) Range \(\text{Quarter of the } \) Quarter of the \(\text{Quarter of the } \) 3. Year Drilled 4. Drilling Permit Number (and date, if known) 5. Type of Well: Bored \(\text{Drilled V Other } \) 6. Total Depth \(\text{U '-2"} \) Diameter (inches) \(\text{Z''} \) 7. Formation clear of obstruction \(\text{Ves} \) No 8. DETAILS OF PLUGGING Filled with \(\text{Bestonite} \) from (cement or other materials) Kind of plug \(\text{from } \) from Filled with \(\text{from } \) from \(\text{Kind of plug } \) from \(\text{Filled with } \) from \(\text{Kind of plug } \) from \(\text{Filled with } \) from \(\text{CASING RECORD: Upper 3 feet of casing removed } \(\text{Ves} \) Day \(\text{Z3} \) 10. Date well was sealed: \(\text{Month } \) \(\text{JUY} \) Day \(\text{Z3} \) 11. Licensed water well driller or other person approved by the Departm \(\text{Roberts Environmental Drilling } \) \(\text{CASING RECORD: Upper 3 feet of casing removed } \)	y the Department	performing well s	ealing.		
	_	<u> </u>	06865 cense Number		

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is scaled. Such wells are to be scaled not more than 30 days after they are abandoned in accordance with the scaling requirements in the Water Well Construction Code.

1. Ownership (Name of Controlling Party) IEPA

1.	Ownership (Name of Controlling Party) $\bot EP/H$				
2.	Well Location: #5 502 E. Mississi, Address - Lot Number	opi Ave.	SANDOVA /	MARION County	62882
	General Description: Township Z (N)(S)	Range	<u>l</u> (E)(W)	Section	17
	Quarter of theQu	arter of the	Qua	rter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				_
5.	Type of Well: Bored Drilled	Other			-
6.	Total Depth 12'-2" Diameter	(inches) 2"			
7.	Formation clear of obstructionYes	No			
8.	DETAILS OF PLUGGING				
	Filled with <u>Bentonite</u> (cement or other materials)	from O	to 12-2	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	Yes	No		
10.	Date well was sealed: Month July Day	23 Ye	ar 1998 .		
11.	Licensed water well driller or other person approved by	y the Department	performing well	sealing.	
	Roberts Environmental Drilling Name		006865 cense Number		_
	1107 S. Mulberry Address	Millsta	9dt	IL. 6220 State/Zip	60

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TYPE OR PRESS FIRMLY

This force shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is scaled. Such wells are to be scaled not more than 30 days after they are abandoned in accordance with the scaling requirements in the Water Well Construction Code.

- Marian					
1.	Ownership (Name of Controlling Party) IEPA	· · · · · · · · · · · · · · · · · · ·			····
2.	Well Location: #6 502 E. Mississipp Address - Lot Number	i Ave.	SANDOVA	MARION County	62882
	General Description: Township Z (N)(S)		<u>l</u> (E)(W)	Section	17
	Quarter of theQu	arter of the	Qua	ırter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)			·····	_
5.	Type of Well: Bored Drilled	Other			_
6.	Total Depth 69'-8" Diameter	(inches)	1)		
7.	Formation clear of obstruction Yes	No			
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from	0 to 69-8	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	Ye	sNo		
10.	Date well was sealed: Month July Day	23	Year 1998 .		
11.	Licensed water well driller or other person approved by	the Departm	ent performing well	sealing.	
	Roberts Environmental Drilling Name 1107 S. Mulberry		- 006865 e License Number		_
	1107 5. Mulberry	Mills City	tadt	IL 6220 State/Zip	<u>50</u>

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TYPE OR PRESS FIRMLY

This form shall be submitted to this Department or the local health department not more than 30 days after a water well; boring or monitoring well is scaled. Such wells are to be scaled not more than 30 days after they are abandoned in accordance with the scaling requirements in the Water Well Construction Code.

1.	Ownership (Name of Controlling Party) IEPA	· · · · · · · · · · · · · · · · · · ·			
2.	Well Location: #7 502 E. Mississipp Address - Lot Number	i Ave.	SANDOVA 1	MARION County	62882
	General Description: Township Z (N)S)	Range		Section	<u>i7</u>
	Quarter of theQ	uarter of the	Qua	arter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)			······	
5.	Type of Well: Bored Drilled	Other			
6.	Total Depth 8'-0" Diameter	(inches)	J.,		
7.	Formation clear of obstruction Yes	No			
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from	0 to 8-0	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	Y	esNo		
10.	Date well was sealed: Month July Day	23	Year 1998 .		
11.	Licensed water well driller or other person approved b	y the Departi	ment performing well	sealing.	
	Roberts Environmental Drilling Name		- 006865 te License Number		_
	1107 S. Mulberry Address	$\frac{\mathcal{N}_i}{\text{City}}$	Istadt	<u>TL. 6226</u> State/Zip	<u>50</u>

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TYPE OR PRESS FIRMLY

This form shall be submitted to this Department or the local health department not more than 30 days after a water well; boring or monitoring well is scaled. Such wells are to be scaled not more than 30 days after they are abandoned in accordance with the scaling requirements in the Water Well Construction Code.

**************************************	- / / /				
1.	Ownership (Name of Controlling Party) I EPA				
2.	Well Location: #8 502 E. Mississi, Address - Lot Number	ppi Aue	SANDOVA) City	MARION County	62882
	General Description: Township Z (NS)		l Em		17
	Quarter of the Q	uarter of the	Quar	ter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				
5.	Type of Well: Bored Drilled	Other			
6.	Total Depth 12-0" Diameter	r(inches) 2"	······································		
7.	Formation clear of obstructionYes	No			
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	fromC	0 to 12-0'	ft.	
	Kind of plug	from	to	_ft.	
	Filled with	from	to	_ft.	
	Kind of plug	from	to	_ft.	
	Filled with	from	to	_ft.	
	Kind of plug	from	to	_ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	✓ Yes	No		
10.	Date well was sealed: Month July Day	23 Y	ar 1998 .		
11.	Licensed water well driller or other person approved b			ealing.	
	Roberts Environmental Drilling Name 1107 S. Mulberry		006865 icense Number		_
	1107 S. Mulberry	Mills of	Adt	IL 6226 State/Zin	D

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

Address

moni	form shall be submitted to this Department or the local foring well is scaled. Such wells are to be scaled not mor rements in the Water Well Construction Code.				
1.	Ownership (Name of Controlling Party) IEPA				
2.	Well Location: #9 502 E. Mississi Address - Lot Number	ppi Ave.	SANDOVA)	MARION County	62882
	General Description: Township Z (N)(S)	Range_	/ (E)(W)	Section	17
	Quarter of the Qu	arter of the	Q	uarter	
3.	Year Drilled				
١.	Drilling Permit Number (and date, if known)				_
5.	Type of Well: Bored Drilled	Other			_
í.	Total Depth 1 Z Diameter	(inches)	<u> </u>		
•	Formation clear of obstructionYes				
	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from	0 to 11 2	<u>-2"</u> ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	CASING RECORD: Upper 3 feet of casing removed	Ye	sNo		
	Date well was sealed: Month July Day	23	Year 1998	<u>.</u> .	
	Licensed water well driller or other person approved by	the Departm	ent performing we	ll sealing.	
	Roberts Environmental Drilling Name	O92 Complete	- 006865 e License Number		
	1107 S. Mulberry	Mill	Stadt	12 622	60

City

State/Zip

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

State/Zip

TYPE OR PRESS FIRMLY

Address

moni	foring well is scaled. Such wells are to be scaled not mo				
1.	Ownership (Name of Controlling Party) IEPA)			
2.	Well Location: #10 502 E. Mississ! Address - Lot Number	ppi Ave.	SANDOVA) City	MARion County	62882
	General Description: Township 2 (N)	Range	/ (E)(W)	Section	17
	Quarter of theQ	uarter of the _	Qu	arter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				-
5.	Type of Well: Bored Drilled	Other			
6.	Total Depth 58'-6" Diameter	(inches)	n ,		
7.					
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from	O to 58-	<u>· 6</u> ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	Yes	No		
0.	Date well was sealed: Month July Day	23	Year 1998	•	
1.	Drilling Permit Number (and date, if known) Type of Well: Bored Drilled Other Total Depth 58'-6'' Diameter (inches) '' Formation clear of obstruction Yes No DETAILS OF PLUGGING Filled with Bendon item to ft. (cement or other materials) Kind of plug from to ft. Kind of plug from to ft. Filled with from to ft.				
	Roberts Environmental Drilling Name	092 - Complete	006865 License Number		-
	1107 5 Mulberry	$M_i 11 \leq$	tadt	IL. 6226	0

City

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is sealed. Such wells are to be sealed not more than 30 days after they are abandoned in accordance with the scaling requirements in the Water Well Construction Code.

1.	Ownership (Name of Controlling Party)	PA			
2.	Well Location: #11 502 E. MISSISSI Address - Lot Number	ppi Ave. 5	PANDOVA /	MARIUN	62883
	General Description: Township 2 (8)	Range	/ (E)(W)	Section _	17
3.	Quarter of the	_Quarter of the	Qu	arter	
4.					
	Drilling Permit Number (and date, if known)	•			
5.	Type of Well: Bored Drilled				_
6.	Total Depth 14-Z" Dian	neter(inches)			
7.	Formation clear of obstruction Yes	No			
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from O	to_14/-	<u>2</u> ″ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing remove	ved Yes	No		
0.	Date well was sealed: Month July I	Day <u>23</u> Ye	ear 1998		
1.	Licensed water well driller or other person approve			l sealing.	
	Roberts Environmental Drilling Name	<u>092-0</u> Complete L	06865 icense Number		
	1107 S. Mulberry Address		adt	<u>IL 6220</u> State/Zin	60_

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

This form shall be submitted to this Department or the local health department not more than 30 days after a water well, boring or monitoring well is scaled. Such wells are to be scaled not more than 30 days after they are abandoned in accordance with the scaling requirements in the Water Well Construction Code.

1.	Ownership (Name of Controlling Party) IEPF	9		
2.	Well Location: # 12 502 E. Mississig	ppi Ave. S	City	MARIUN 62882 County
	General Description: Township Z (N)(S) Range	[E)(W)	Section 17
	Quarter of the(Quarter of the	Qua	rter
3.	Year Drilled			
4.	Drilling Permit Number (and date, if known)			
5.	Type of Well: Bored Drilled	Other	<u></u>	
6.	Total Depth (00'-6" Diamete	er(inches)	····	
7.	Formation clear of obstruction Yes	No		
8.	DETAILS OF PLUGGING			
	Filled with Bentonite (cement or other materials)	fromO	to 60'-0	n.
	Kind of plug	from	ťo	ft.
	Filled with	from	to	ft.
	Kind of plug	from	to	ft.
	Filled with	from	to	ft.
	Kind of plug	from	to	ft.
9.	CASING RECORD: Upper 3 feet of casing removed	Yes	No	
10.	Date well was sealed: Month July Day	23 Ye	ar 1998 .	
11.	Licensed water well driller or other person approved	by the Department	performing well	sealing.
	Roberts Environmental Drilling		XX6865 icense Number	
	1107 5 Mulberry	Millst.	adt	IL 62260 State/Zip

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

Address

mon	is form shall be submitted to this Department or the local health nitoring well is scaled. Such wells are to be scaled not more than nitrements in the Water Well Construction Code.	lepartment a 36 days after	of more than ? they are abane	A days after a m finied in accorda	aler well, born nie with the ne
1.	Ownership (Name of Controlling Party) IEPA				
2.	Well Location: #13 502 E. Mississippi Address - Lot Number	<u>Ave.</u> S	ANDOUA (MARjow County	62882
	General Description: Township 2 (N)(S)	lange	(E) (W)	Section	17
	Quarter of the Quarter o	f the	Quan	rter	
	Year Drilled				
•	Drilling Permit Number (and date, if known)				 -
	Type of Well: Bored Other_				-
	Total Depth 42'-2" Diameter (inches)	2`			
	Formation clear of obstruction Yes No				
	DETAILS OF PLUGGING				
	Filled with <u>Bewtonite</u> fro (cement or other materials)	n <u>O</u>	to 42-2	″_ft.	
	Kind of plugfrom	n	to	_ft.	
	Filled withfrom	m	to	ft.	
	Kind of plug from	n	to	_ft.	
		n	to	ft.	
	Kind of plug from	1	_to	_ft.	
	CASING RECORD: Upper 3 feet of casing removed	Yes	No		
	Date well was sealed: Month July Day 23	Year_	<u> 1998</u> .		
	Licensed water well driller or other person approved by the De			ealing.	
	Roberts Environmental Drilling)92-000 mplete Licen	6865		
	1107 5 Mulherry	7:11 tan	14	T/ 6226	΄ Ω

City

State/Zip

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

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1.	Ownership (Name of Controlling Party) IEPA				···
2.	Well Location: #14 502 E. Mississip Address - Lot Number	pi Aue	SANDOUAL	MARION	62882
	Address - Lot Number	,	City	County	
	General Description: Township Z (N)(S)	Range_		Section _	17
	Quarter of theQ	uarter of the	Qua	arter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				_
5.	Type of Well: Bored Drilled	Other			<u> </u>
6.	Total Depth 14'-0" Diameter	r(inches)			
7.	Formation clear of obstructionYes	No			
8.	DETAILS OF PLUGGING				
	Filled with <u>Bentonite</u> (cement or other materials)	from	0 to 14-0	<u>o″</u> ft.	
	Kind of plug	from	to	ft.	
					
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	Yes	No		
10.	Date well was sealed: Month July Day_	23	Year 1998 .		
11.	Licensed water well driller or other person approved by	y the Departme	ent performing well	sealing.	
	Roberts Environmental Drilling Name 1107 S. Mulberry		006865 License Number		
	1107 5. Mulberry	Mills City	tadt	IL 622 State/Zip	60

RETURN ALL COPIES TO IDPH OR LOCAL HEALTH DEPARTMENT

TYPE OR PRESS FIRMLY

Mon	form shall be submitted to this Department or the local foring well is scaled. Such welk are to be scaled not mor irements in the Water Well Construction Code.	re than 30 days after	they are abau		nce with the scal
1.	Ownership (Name of Controlling Party) IEPA				
2.	Well Location: #15 502 E. Mississip Address - Lot Number				
	General Description: Township Z (N)(S)	Range	(E)(W)	Section _	17
	Quarter of the Qu	arter of the	Qu	arter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				····
5.	Type of Well: Bored Drilled	Other			_
6.	Total Depth 23'-6" Diameter	(inches) 2"			
7.	Formation clear of obstruction Yes	No			
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from O	to_23-6	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
).	CASING RECORD: Upper 3 feet of casing removed	V Yes _	No		
).	Date well was sealed: Month July Day	23 Year	1998 .		
1.	Licensed water well driller or other person approved by				
	Roberts Environmental Drilling Name 1107 S. Mulberry	<u>092-00</u> Complete Licer			
	1107 S. Mulberry Address	Millstrace City	14	Il. 622, State/Zip	<u>60</u>

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State/Zip

TYPE OR PRESS FIRMLY

Address

	Ownership (Name of Controlling Party) IEPA				
•	Well Location: #/6 502 E. Mississ, Address - Lot Number	ippi Ave s	SANCOUAL City	MARION County	62882
	General Description: Township 2 (No	S) Range	l Œw	Section	17
	Quarter of the	Quarter of the	Q	uarter	
	Year Drilled				
	Drilling Permit Number (and date, if known)	··			_
	Type of Well: Bored Drilled				_
	Total Depth 8'-6" Diamet	ter(inches) 2''			
	Formation clear of obstructionYes	No			
	DETAILS OF PLUGGING				
	Filled with Benton te (cement or other materials)	from <i>O</i>	to 18 ²	<u>6"</u> ft.	
	Filled with Bentonite		to_18 ² (
	Filled with Bentonite (cement or other materials)	from	to	ft.	
	Filled with Benton te (cement or other materials) Kind of plug	fromfrom	toto_	ft. ft.	
	Filled with Benton te (cement or other materials) Kind of plug Filled with	from from from	toto to	ft. ft. ft.	
	Filled with Beston te (cement or other materials) Kind of plug Filled with Kind of plug	from from from	toto to	ft. ft. ft.	
	Filled with Bestow te (cement or other materials) Kind of plug Filled with Kind of plug Filled with	from from from from from	tototototo	ft. ft. ft.	
	Filled with Bestow te (cement or other materials) Kind of plug Filled with Kind of plug Filled with Kind of plug	from from from from from from	tototototo	ft. ft. ft. ft.	
	Filled with Bestow te (cement or other materials) Kind of plug Filled with Kind of plug Filled with Kind of plug CASING RECORD: Upper 3 feet of casing removed	from from from from from from y 23 Yes	totototo	ft. ft. ft. ft.	
	Filled with Bestow te (cement or other materials) Kind of plug Filled with Kind of plug Filled with Kind of plug CASING RECORD: Upper 3 feet of casing removed Date well was sealed: Month July Da	from from from from from yes y 23 Yes by the Department	totototo	ft. ft. ft. ft.	

ILLINOIS DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENVIRONMENTAL HEALTH **525 WEST JEFFERSON STREET** SPRINGFIELD, ILLINOIS 62761

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1.	Ownership (Name of Controlling Party) IEPA			·	
2.	Well Location: #17 502 E. Mississif Address - Lot Number	pi Ave.	SANDOVAL	MARION	62882
	Address - Lot Number	1	City	County	<u>\</u>
	General Description: Township Z (N)(S)	Range_	/ (E)(W)	Section	17
	Quarter of the Qu	arter of the	Qua	uter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				_
5.	Type of Well: Bored Drilled	Other			-
6.	Total Depth Diameter	(inches)_ <i>_</i>			
7.	Formation clear of obstruction Yes	No			
8.	DETAILS OF PLUGGING				
	Filled with Bentonite (cement or other materials)	from	0 to 4-	<u>) </u> ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9.	CASING RECORD: Upper 3 feet of casing removed	Y	sNo		
10.	Date well was sealed: Month July Day	<i>a</i> 3	Year 1998 .		
11.	Licensed water well driller or other person approved by	the Departm	ent performing well	sealing.	
	Roberts Environmental Drilling Name 1107 S. Mulberry		006865 e License Number		
	1107 S. Mulberry Address	<u></u>	Istadt	<i>IL. 6220</i> State/Zip	6 <u>0</u>

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1.	Ownership (Name of Controlling Party) IEP	A		
2.	Well Location: #18 502 E. MISSISSIF Address - Lot Number	PI AVE	SANDOYAL City	MARION 62882 County
	General Description: Township 2 (N)(S)	Range	<u>/</u> (E)(W)	Section
	Quarter of the Qu	arter of the	Quar	ter
3.	Year Drilled			
4.	Drilling Permit Number (and date, if known)	····		
<i>5</i> .	Type of Well: Bored Drilled	Other		
6.	Total Depth 15'-0" Diameter	(inches) 2"		
7.	Formation clear of obstruction Yes	No		
8.	DETAILS OF PLUGGING			
	Filled with BENTONITE (cement or other materials)	from O	to 15-0	<u>"</u> ft.
	Kind of plug	from	to	_ft.
	Filled with	from	to	ft.
	Kind of plug	from	to	_ft.
	Filled with	from	to	_ft.
	Kind of plug	from	to	_ft.
9.	CASING RECORD: Upper 3 feet of casing removed	Yes	No	
10.	Date well was sealed: Month 」しい Day	<u>23</u> Ye	ar <u>1998</u> .	
11.	Licensed water well driller or other person approved by	the Department	performing well se	ealing.
	ROBERTS ENVIRONMENTAL DRILLING		006865	
	Name	Complete Li	cense Number	- /
	1107 S. MULBERRY	Mulsi City	TADI	TL/62260 State/Zip

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1.	Ownership (Name of Controlling Party) IFP	Α			
2.	Well Location: #19 502 E. MISSISS IP Address - Lot Number	PI AVE.	Sauloval City	MARION County	<u>62882</u>
	General Description: Township Z (N)(S)	Range	((E)(W)	Section	17
	Quarter of theQu	arter of the	Qua	rter	
3.	Year Drilled				
4.	Drilling Permit Number (and date, if known)				_
5.	Type of Well: Bored Drilled	Other			_
6.	Total Depth (09-3" Diameter	(inches)	<u> </u>		
7.	Formation clear of obstruction Yes	_No			
8.	DETAILS OF PLUGGING				
	Filled with BENTONITE (cement or other materials)	from	O to 6'-C	<u>"</u> ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
	Filled with	from	to	ft.	
	Kind of plug	from	to	ft.	
9,	CASING RECORD: Upper 3 feet of casing removed	Ye	esNo		
10.	Date well was sealed: Month JULY Day	23	Year 1998 .		
11.	Licensed water well driller or other person approved by	the Departm	ent performing well	sealing.	
	ROBERTS ENVIRONMENTAL DRILLING Name		- 00 68 65 e License Number		
	1107 S. MULBERRY	MILL	STADT	IL /622 State/Zin	<u>60</u>

APPENDIX D RECYCLING AGREEMENTS AND SHIPPING TICKETS



ZINC CORPORATION OF AMERICA 300 FRANKFORT ROAD MONACA, PA 15061-2296

(412) 774-1020

October 23, 1998

Mr. Henry Stremlau REACT Environmental Engineers 1733 S. Vandeventer Avenue St. Louis, MO 63110-2223

Re: Sandoval Zinc Residue

Attached please find a pro forma purchase order for our purchase of additional loads of residue remaining in the one pile in which we are interested. A formal P.O. will follow in the mail.

The first two loads received here were marginal in zinc content, but nevertheless, they were acceptable for processing into commercial zinc metal. As discussed, our intent is to continue to take this residue until the pile (estimated to be 2-3 more truck loads) is exhausted providing each load received contains enough zinc to justify our continuing interest in receiving the next load. We hope this load by load procedure will satisfy the needs of all parties involved. The criterion for justifying our interest in taking a next load is not clearly cut. Nevertheless, I can give some guidance as follows with the understanding that ZCA's sole judgment will govern:

A zinc content equal to or greater than 35% will trigger the release of the next load.

A zinc content between 30 and 35% is a gray area.

A zinc content in the high 20's will likely cause termination of the purchase order.

A zinc content below 25% will definitely cause termination.

Any residue loaded to truck provided by us will not be rejected due to zinc content. Without unreasonable delay, we will sample and assay each load upon arrival here, and as soon as the information required is available (one week to ten days), will advise you whether the next load is to be released or the purchase order is to be terminated.

We will take each load, fob truck, Sandoval, IL at no charge for the residue. We will arrange for transportation, and the cost of freight will be for ZCA's account. We will want a reasonable effort at loading at Sandoval to remove foreign debris such as bricks, wood and other miscellaneous items and to minimize loading material from the adjacent pile.

Commencement of this procedure is contingent upon approval from the DLP of Pennsylvania concerning the acceptability of this residue here. The approval process is underway now, and if approved, I will contact Rob Jenkins at the Sandoval site to set up the first load.

Let me know if the above is not satisfactory or if you have any questions.

Sincerely,

T.A. Theobald

T.A. Theobald

COMMENTS:

ZINC CORPORATION OF AMERICA

RAW MATERIALS FAX NO. (724) 773-9394

TELECOPY IDENTIFICATION TRANSMITTAL SHEET

THE INFORMATION CONTAINED IN THIS FACSIMILE TRANSMISSION IS LEGALLY PRIVILEGED AND CONFIDENTIAL AND INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED BELOW. IF YOU ARE NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, COPY, OR OTHER USE OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS TRANSMISSION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE SO THAT WE MAY ARRANGE FOR ITS RETURN TO US. THANK YOU.

DATE:	10-23-98	
TO:	HENRY STREMLAU	Æ.
FROM:	Tom A. Theobald	
PAGES:	2 + COVER	
IF PROBLEMS	OCCUR WITH THIS TRANSMISSION, PLEASE CALL 724 773-2214.	

ID:724-773-9394

TS 8602

REACT Environmental Engineers 1733 S. Vandeventer Avenue St. Louis, MO 63110-2223

Attention: Henry Stromlau

7060962

Terms	FOB & Freight	Via	Date
NA	Sandoval, IL	Truck	October 23, 1998

Approximately 125,000

lbs - Zinc Bearing Residue

Quantity subject to certain conditions per letter dated October 23, 1998.

Price:

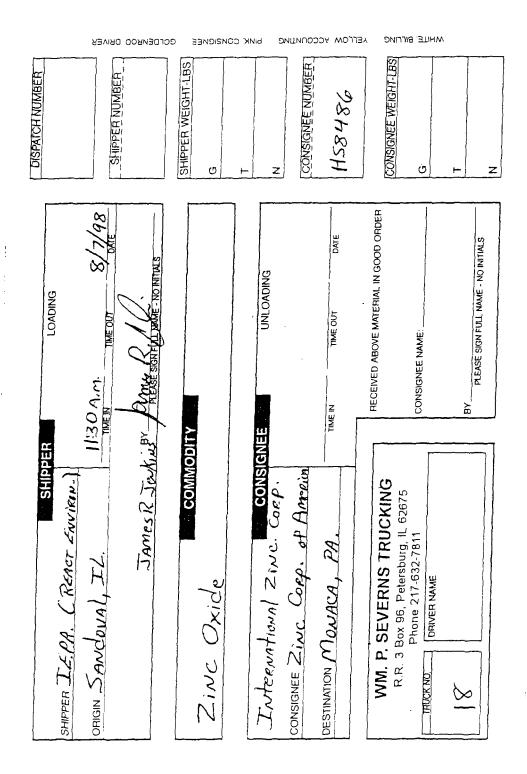
No Charge

Please show order number TS 8602 on all paperwork

Confirming with Henry Stremlau and Tom Theobald

Material containing more than 2% organics may be returned at shipper's expense.

ZCA's zinc assay to govern.



Project # 6536.04 SANDOVAL ZINC

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CONSOLIDATED EXCHANGE, INC. CARLYLE, ILL 594-2223 BARTELSO, ILL 765-2116 SANDOVAL, ILL 247-3661								

Plajed # 6536.04 SANDUAL ZINC F nes: 330-758-0841

800-462-9365 MARIETTA, OHIO 800-633-9365 PERRYSBURG, OHIO 800-262-9365 YOUNGSTOWN, OHIO

F :: 1-330-758-0786

R & J Trucking

8063 SOUTHERN BLVD.
P.O. BOX 9454
YOUNGSTOWN, OHIO 44513
Radio Dispatched Bulk Commodity Haulers

862183

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APPENDIX E HAZARDOUS WASTE MANIFESTS -- PEORIA DISPOSAL

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

7			State Form LPC								
PLE	ASE TYPE (Form designed for use on elite (12-pitch) typewriter.)	EPA F	orm 8700-22	<u>` </u>		Form App	roved. OMI	3 No. 20	50-0039	
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P.D. BOX 19276

State Form LPC 62 8/81

IL532-0610

EASE TYPE or use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved OMB No. 2050-0039 Manifest Information in the shaded areas is not required by Federal law, but is required by 1. Generator's US EPA ID No. UNIFORM HAZARDOUS Document No ILD053980454 **WASTE MANIFEST** cca A. Illinois Manifest Document Number FEE PAID 3. Generator's Name and Mailing Address Location If Different 78046 ILLINOIS EPA IF APPLICABLE SMELTER RD & HIGHWAY 51 Generator's IL ROB JENKINS SANDOVAL, IL 62882 ID Number | 1 110151010101010 4. '24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS' 618-247-3645 Transporter's US EPA ID Number 5. Transporter 1 Company Name **ID Number** ILDO 53980276 Midwest D. Transporter's Phone (618) 254-6171 7. Transporter 2 Company Name US EPA ID Number Transporter's iD Number F. Transporter's Phone (9. Designated Facility Name and Site Address US EPA ID Number 10. PDC #i G. Facility's IL 1 4 3 8 1 2 0 0 0 3 4349 SOUTHPORT ROAD H. Facility's Phone (PEORIA, IL 61615 ILD 000 805 81 309 676-4893 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13 14 Total Unit Waste No. No. Quantity Wt∕Vol G EPA HW Number RO, HAZARDOUS WASTE SOLID, NOS, 9, NA3077, F PGIII, (D008) 0,0,0,2 00032 Ε EPA HW Number ь R EPA HW Number О R 099/-791/117 EPA HW Number d. K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above and FUEL OIL CONTAMINATED ZING PROCESSING WASTE WMDS #22123 the National Hesponse box C) UPW-04/8016-0+1 h. 15. Special Handling Instructions and Additional Information NAERG = 171 (ATTACHED) nadraut 3 A + 4B DDH 24 HR. EMG. # 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. Center If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date 臼 Printed/Typed Name Signature Month Dav 800 / 424-8802 PRINTED NAME IEPA 2049 17. Transporter 1 Acknowledgement of Receipt of Materials Date Dav Printed/Typed Name Signature 18. Transporter 2 Acknowledgement of Receipt of Materials Date 9 Month Day Year Printed/Typed Name Signature 202 / 426-2675 19. Discrepancy Indication Space A Date 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 Day Month rinted/Typed Name Signature Agency is authorized to require, pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency, Failure to provide information may result in a civil penalty against the owner or operator not to exceed \$25,000 pp day of violation. Falsification of this information may result in a fine up to \$50,000 day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

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S.IA IE OF ILLINOIS

♥.O. BOX 19276

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

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VIEW AND EPOPER UNITARIES OF THE PROPERTY PROBLEM PORTION CONTROP STATE OF ILLINOR FOR SHIPMENT OF HAZARDOUS P.O. BOX 1/9276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 EASE TYPE e on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved, OMB No. 2050-0039 Manifest Document No. 1. Generator's US EPA ID No. Information in the shaded areas is not required by Federal law, but is required by Illinois law UNFORM HAZARDOUS 2 Page 1 **WASTE MANIFEST** ILD053980454 005 A. Illinois Manifest Document Number FEE PAID 3. Generator's Name and Mailing Address Location If Different 461 780 ILLINOIS EPA GRIDS 1B,1A,3B IF APPLICABLE SMELTER RD & HIGHWAY 51 ROB JENKINS B. Generator's IL SANDOVAL, IL 62882 015 0 0 0 0 0 2 ID Number 4. '24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS' 618-247-3645 Transporter's US EPA ID Number 5. Transpoter 1 Company Name **ID Number** ILDU 53980272 -SCRVILL Transporter's Phone (6/8) 254-017 US EPA ID Number 7. Transpoter 2 Company Name Transporter's ID Number F. Transporter's Phone (9. Designated Facility Name and Site Address US EPA ID Number 10. PDC #1 G. Facility's IL 1 4 3 8 1 2 0 0 0 3 ID Number 4349 SOUTHPORT ROAD H. Facility's Phone (PEORIA, IL 61615 TLD 000 805 812 <u>309 676-4893</u> 12. Containers 13. 14 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Unit Total Waste No. Quantity Wt/Vol EPA HW Number RQ, HAZARDOUS WASTE SOLID, NOS, 9, NA3077, w h Ε PGIII. (D008) 003 E EPA HW Number b R Т EPA HW Number C. 0 R EPA HW Number d. 782-7860 K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above and the National Response Center FUEL OIL CONTAMINATED ZINC PROCESSING WASTE WMDS #22123 15. Special Handling Instructions and Additional Information DoxC) UPW-0616-404-0HW.

NAERG = 171 (ATTACHED) NAÈRG = 171 (ATTACHED) 24 HR. EMG. # 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford at 800 / 424-8802 Date PHINTELL NAME IEPA/Rib Jenkins Signature Month Day Year 98 207 17. Transporter 1 Acknowledgement of Receipt of Materials Date Month Day Year Printed/Typed Name Signature ANSPORTER KRIS 6,665 ヨ٥フ 9 8 18. Transporter 2 Acknowledgement of Receipt of Materials Date 잋 Month Day Year Printed/Typed Name Signature 202 / 426-2675 19. Discrepancy Indication Space A C 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 Date Day Printed/Typed Name-Signature This Agency is authorized to require, pursuant to Illinois Revised Statute, 1989. Chapter 111 1/2, Section 1004 and 1021, that this information be submitted to the Agency. Faiture to provide this information may result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

FOR SHIPMENT OF HAZARDOUS AND SPECIAL WASTE

UNIFORM HAZARDOUS VASTE MANIFEST ILD053980454 Location If Different 3.TGTTRITES ARP And Mailing Address ROB JENKINS R	Ste DOX 5 L. 2028 Phone (6/5) 254-0/7/ Phone () 1,4,3,8,1,2,0,0,0						
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16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. PRINTED NATE PRINTED NATE PRINTED NATE PRINTED NATE Signature Month Day Year Adv., Of Wasteylas Signature Month Day Year Adv., Of Wasteylas 12 07 9 9 18. Transporter 2 Acknowledgement of Receipt of Materials Date Page 18. Transporter 2 Acknowledgement of Receipt of Materials Date Date Month Day Year 12 07 9 9 18. Transporter 2 Acknowledgement of Receipt of Materials							
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CINVINORMIENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTRO STATE OF ILLINOIS FOR SHIPMENT OF HAZARDOUS SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-676 AND SPECIAL WASTE State Form LPC 62 8/81 II 532-0610 LEASE TYPE EPA Form 8700-22 (Rev. 6-89) Approved. OMB No. 2050-0039 (Form designed for use on elite (12-pitch) typewriter.) Manifest Document No 1. Generator's US EPA ID No Information in the shaded areas is not required by Federal law, but is required by Illinois law. **UNIFORM HAZARDOUS** WASTE MANIFEST *CO* 7 ILD053980454 Location If Different A. Illinois Manifest Document Number FEE PAID 3. Generator's Name and Mailing Address ROB JENKINS GRIds 20,40,38 SMELTER RD & HIGHWAY 51 IF APPLICABLE Generator's IL ID Number 1 0 04 04 04 SANDOVAL, 4. '24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS' 518-Transporter's US EPA ID Number C. 5. Transpoter 1 Company Name ID Number TLD053980276 Midwest Sanitar Transporter's Phone (6/8) 254-017 7. Transpoter 2 Company Name US EPA ID Number Transporter's ID Number 9. Designated Facility Name and Site Address PDC #1 F. Transporter's Phone (US EPA ID Number 10 G. Facility's IL D Number | 1 | 4 | 3 | 8 | 1 | 2 | 0 | 0 | 0 | 3 ABARISOUTHPORT BEAD ILD 000 805 812 H. Facility's Phone (3**09** 676-4893 12. Containers 13. 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Unit Total Waste No. Type Quantity Wt/Vol EPA HW Number D Ø Ø RQ, HAZARDOUS WASTE SOLID, NOS, 9, NA3077, Ε PGIII. (D008) 17 10,0,0,2,5 000 .3 Ε b. R т EPA HW Number C Ω R EPA HW Number d.

Additional Description for Materials Listed Above	K. Handling Codes for Wastes Listed Above
FUEL OIL CONTAMINATED ZINC PROCESSING WASTE	In Item #14
WMDS #22123	

and the

Date

15. Special Handling Instructions and Additional Information

NAERG = 171 (ATTACHED)

24 HR. EMG. #

Printed/Typed Name

J.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as 10 ped in item 19

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment, OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

National Response Center at Date Month Day PRINTEH NAME TEPA Signature 800/424-8802 120898 17. Transporter 1 Acknowledgement of Receipt of Materials Day Printed/Typed Name Signatúre 18. Transporter 2 Acknowledgement of Receipt of Materials Date or 202 / 426-2675 Month Day Year Printed/Typed Name Signature 19. Discrepancy Indication Space

pursuant to Illinois Revised Statute, 1989, Chapter 111 1/2, Section to the Agenc y result in a against line owner or operator not to exceed \$25,000 per day of violation. Falsification This form has been approved by the Forms Management Center. information may fine up

Signature

STATE OF ILLINOIS FOR SHIPMENT OF HAZARDOUS P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 LEASE TYPE d for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No. 2050-0039 Manifest Information in the shaded areas is not required by Federal law, but is required by 1. Generator's US EPA ID No UNIFORM HAZARDOUS Document No. WASTE MANIFEST 008 Illinois law ILD053980454 A. Illinois Manifest Document Number FEE PAID 3. Gene rator's Name and Mailing Address Location If Different IF APPLICABLE ILLINOIS EPA GRIds 20,40,3B SMELTER RD & HIGHWAY 51 Generator's II ROB JENKINS 5,0,0,0,0,2 SANDOVAL, IL 62882 ID Number 4. '24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS' 618-247-3645 Transporter's US EPA ID Number 5. Transporter 1 Company Name ID Number ILD05398027 SANITARY Transporter's Phone US EPA ID Number 7. Transporter 2 Company Name E. Transporter's ID Number F. Transporter's Phone (9. Designated Facility Name and Site Address 10. US EPA ID Number G. Facility's IL 1 4 3 8 1 2 0 0 0 3 PDC #1 ID Number 4349 SOUTHPORT ROAD H. Facility's Phone (PEORIA, IL 61615 ILD **000 805 812** 309 676-4893 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers 13 Total Unit Waste No. No. Quantity Wt/Vol G EPA HW Number RQ, HAZARDOUS WASTE SOLID, NOS, 9, NA3077, Ε PGIII, (D008) Ν 0,0,0,2,5 Ε Hesponse EPA HW Number b Ħ EPA HW Number С 0 at R 217 / 782-7860 d. EPA HW Number K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above and FUEL OIL CONTAMINATED ZINC PROCESSING WASTE WMDS #22123 the National Response 15. Special Handling Instructions and Additional Information) UPW-04480160H NAERG = 171 (ATTACHED) 24 HR. EMG. # 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. ; Center If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Date at 800 / 424-8802 Printed/Typed Name Month Day 2089 PRINTED NAME Transporter 1 Acknowledgement of Receipt of Materials Date Day Printed/Typed Name Signature 057 R13 6,555 18. Transporter 2 Acknowledgement of Receipt of Materials Date ORTER Month Day Signature Year Printed/Typed Name 202 / 426-2675 19. Discrepancy Indication Space A 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 Date Printed/Typed Name by result in a civil penalty against the owner or operator not to exceed \$25,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center. nformation be submitted to the Agency Failure of this information may result in a fine up

HATE OF ILLINOIS FOR SHIPMENT OF HAZARDOUS BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761 AND SPECIAL WASTE State Form LPC 62 8/81 IL532-0610 ASE TYPE EPA Form 8700-22 (Rev. 6-89) Form Approved. OMB No 2050-0039 Information in the shaded areas is not required by Federal law, but is required by Illinois law. 1. Generator's US EPA ID No. Manifest UNIFORM HAZARDOUS Document No. WASTE MANIFEST 009 ILD053980454 Illinois Manifest Document Number FEE PAID 3. Generator's Name and Mailing Address Location If Different ILLINOIS EPA IF APPLICABLE SMELTER RD & HIGHWAY 51 ROB JENKINS GRIDS 20,40,38 Generator's IL SANDOVAL, IL 62882 4. *24 HOUR EMERGENCY AND SPILL ASSISTANCE NUMBERS* 618-247-3645 Transporter's 5. Transporter 1 Company Name US EPA ID Number ID Number Midwest SANITAR ILDo 539802 7 Transporter's Phone (6 US EPA ID Numbe 7. Transporter 2 Company Name Transporter's ID Number F. Transporter's Phone (US EPA ID Number 9. Designated Facility Name and Site Address 10 PDC #1 Facility's IL 1 4 3 8 1 2 0 0 0 3 ID Number 1 4 3 8 1 2 0 10 3 4349 SOUTHPORT ROAD H. Facility's Phone (PEORIA, IL 61615 ILD 000 805 812 **309 676-4**893 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) 12. Containers Total Unit Waste No. Туре No. Quantity Wt/Vol EPA HW Number 8 RQ. HAZARDOUS WASTE SOLID, NOS, 9, NA3077, C PGIII, (D008) <u>0003</u>2 EPA HW Number h EPA HW Number O R EPA HW Number d. /82-/860 and the National K. Handling Codes for Wastes Listed Above In Item #14 J. Additional Description for Materials Listed Above FUEL OIL CONTAMINATED ZINC PROCESSING WASTE WMDS #22123 UPW-04-8016-0HM. 15. Special Handling Instructions and Additional Information NAERG = 171 (ATTACHED) Response Center at 24 HR, EMG, # 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Signature Month Day Printed/Typed Name 800/424-8802 120898 JENKINS PRINTED NAME 17. Transporter 1 Acknowledgement of Receipt of Materials Date Day Printed/Typed Name Signaturé 708 18. Transporter 2 Acknowledgement of Receipt of Materials Date RTER Month Day or 202 / 426-2675 Printed/Typed Name Signature Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 Date Day Printed/Typed Name analty against the owner or operator not to exceed \$25,000 per day of violation years. This form has been approved by the Forms Management Center. pursuant to Illinois Revised Statute, 1989. Chapter 111 This Agency is authorized to require this information may result in a civil per day of violation and imprisonment up to be submitted to the penalty this information may result in a fine up

APPENDIX F HAZARDOUS WASTE MANIFESTS -- MICHIGAN



Printed Typed Name

WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Required under authority of Part 1: Part 121 of Act 451, 1994, as amen

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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

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Failure to file may subject you to criminal and/or civil penalties unde Sections 324,11151 or 324,12116 M

Form Approved. OMB No. 2050-0039

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	NAERG = 171 (COPY ATTACHED)						
-	GENERATOR'S CERTIFICATION: I hereby declare that the content packed, marked, and labeled, and are in all respects in proper content						
	If I am a large quantity generator, I certify that I have a prog	gram in place to reduce the volu	ime and toxicity	of waste	generated to the	e degree	I have determ
	to be economically practicable and that I have selected the present and future threat to human health and the environm	ent; OR; if I am a small quantit	ty generator, I h				
	generation and select the best waste management method that	is available to me and that I can a	эпога. . //				Date
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	19. Discrepancy Indication Space						
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2	 Facility Owner or Operator: Certification of receipt of hat Item 19. 	zaruous materials covered by	tais manifest 6	xuept as	s noted in		Date
-	Printed/Typed Name	Signature	`		- }	- M	onth Day Y
1-	DUANE JONES		\			· . !	2119
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WASTE MANAGEMENT DIVISION MICHIGAN DEPARTMENT OF ENVIRONMENTAL-QUALITY

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Failure to file may subject you to criminal and/or civil penalties unde Sections 324.11151 or 324.12116 M

Form Approved. OM8 No. 2050-0039

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Required under authority of Part 1 Part 121 of Act 451, 1994, as amen

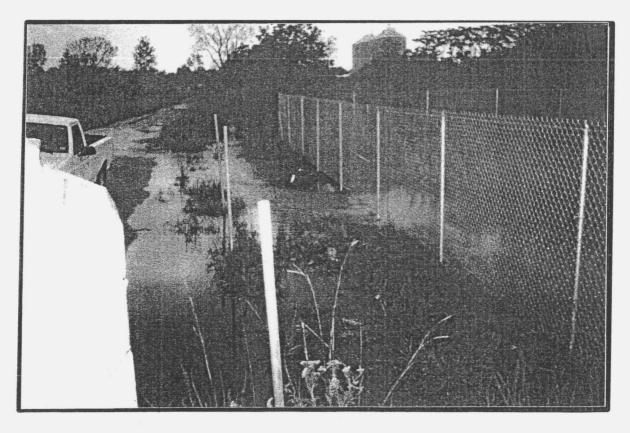
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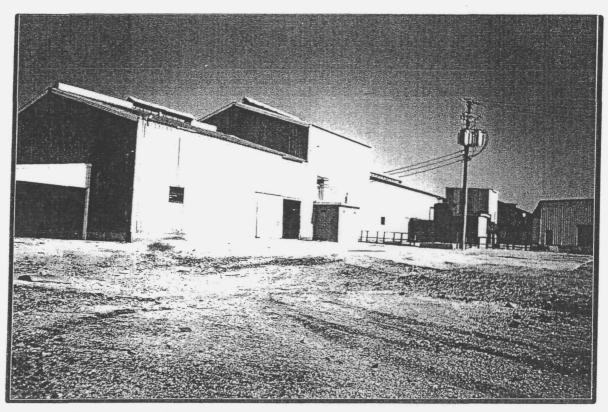
APPENDIX G PHOTO LOG



View of southwest side of site where fence was removed by vandals.



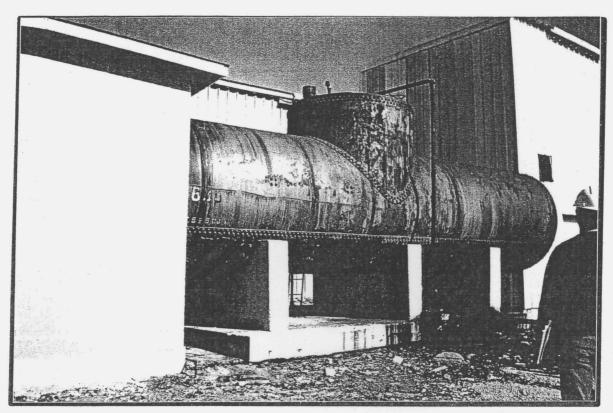
View of new fence on southwest side of site.



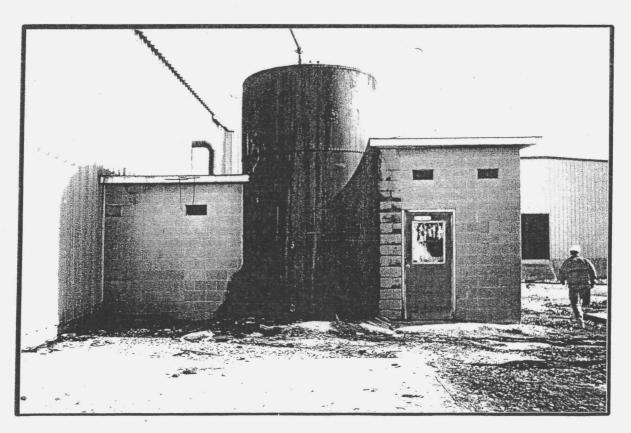
View of southwest side of smelter.



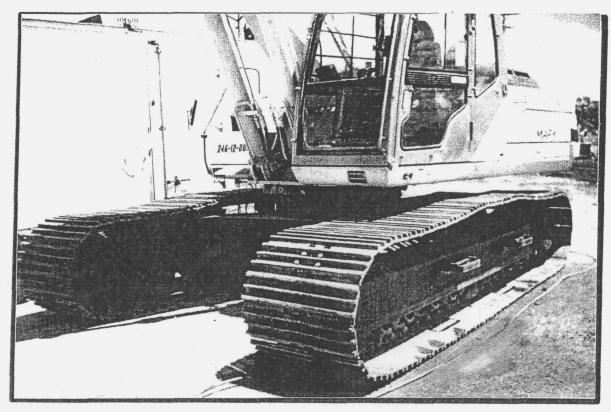
View of northeast side of smelter.



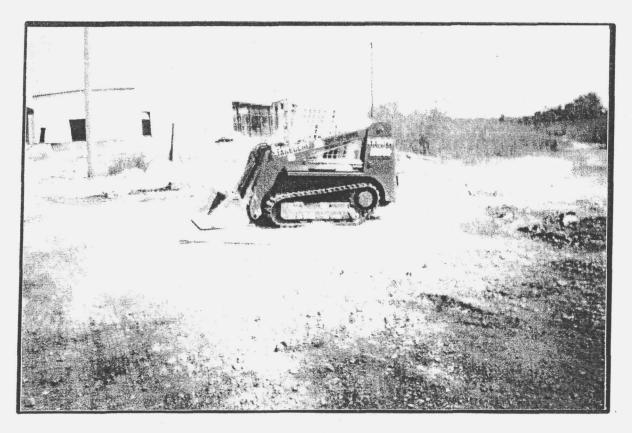
View of fuel oil tank #1.



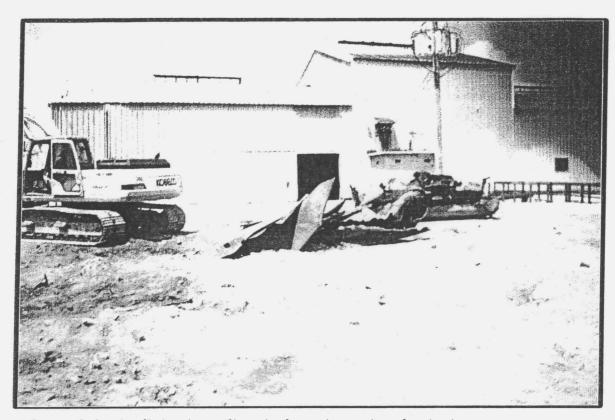
View of fuel oil tank #2.



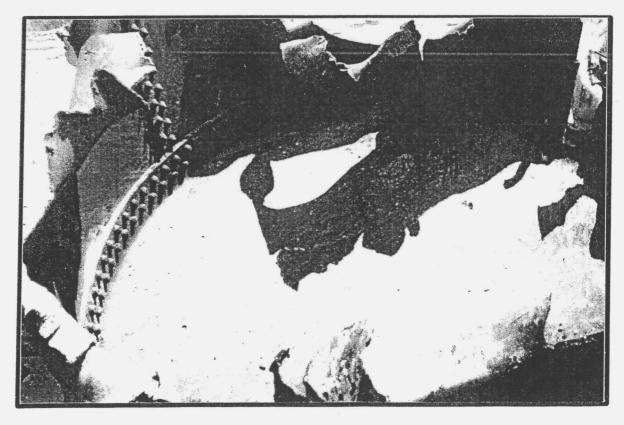
View of Kobelco trackhoe with shears used to cut up fuel oil tanks.



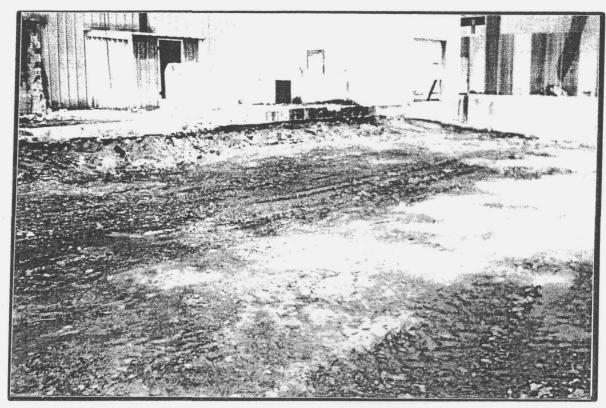
View of Takeuchi TL26 used to clean up zinc oxide waste and load trucks.



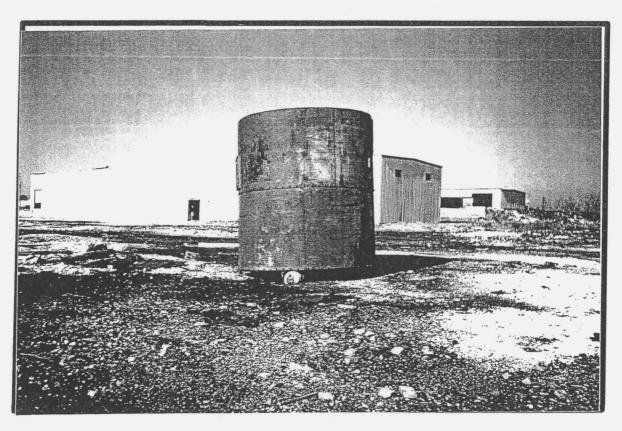
View of fuel oil tanks after being decontaminated and cut up for scrap.



View of decontaminated section of fuel oil tank.



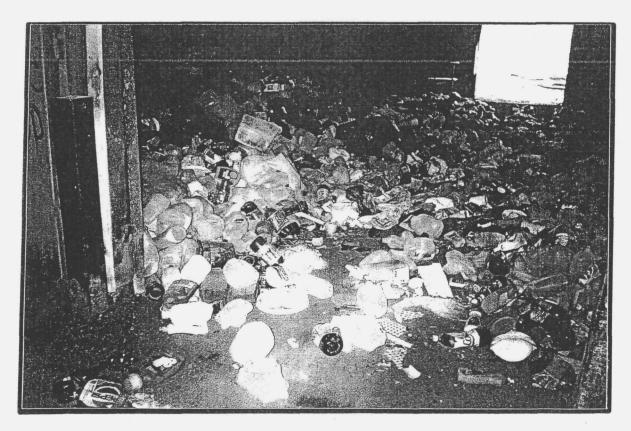
View of excavated area where fuel oil tanks were located.



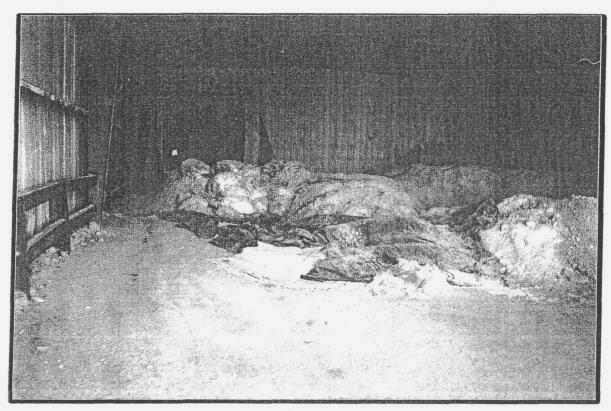
View of empty steel tank on site. Tank was decontaminated and removed for scrap.



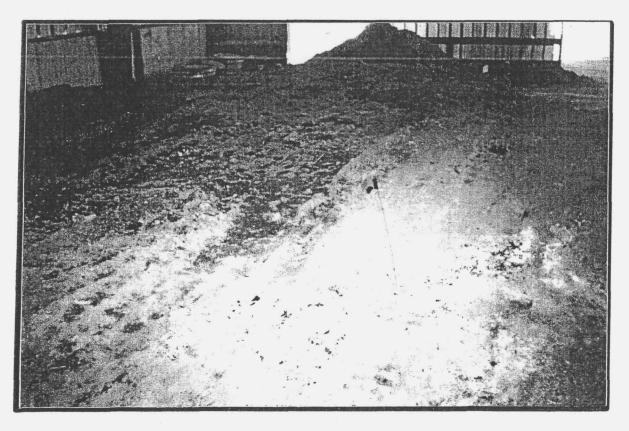
View of fuel soils and bags of used PPE.



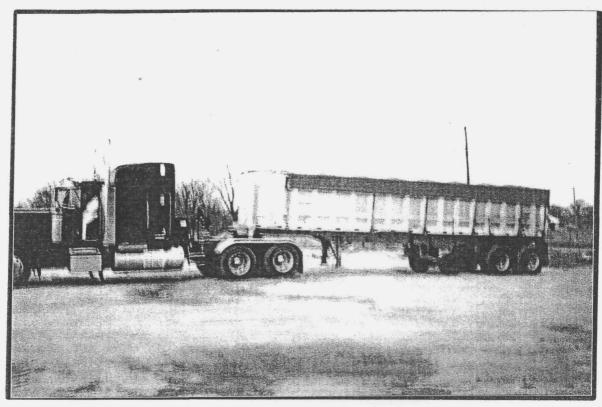
View of plastic containers stored in building #5.



View of zinc oxide waste and fuel soils from previous fuel spill.



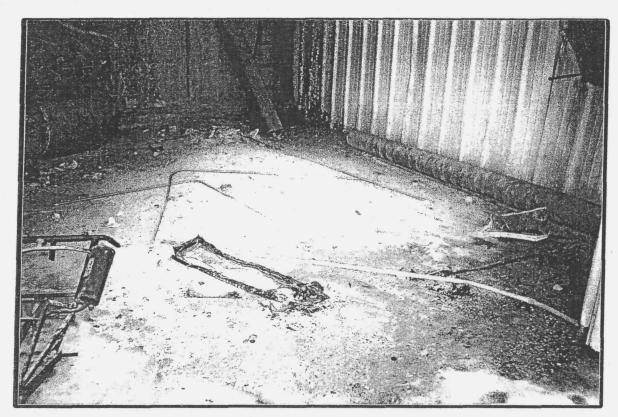
View of fuel soils and zinc oxide waste placed in 12' \times 12' grids.



View of truck used to haul zinc oxide waste fuel soils.



View of truck being loaded with zinc oxide waste.



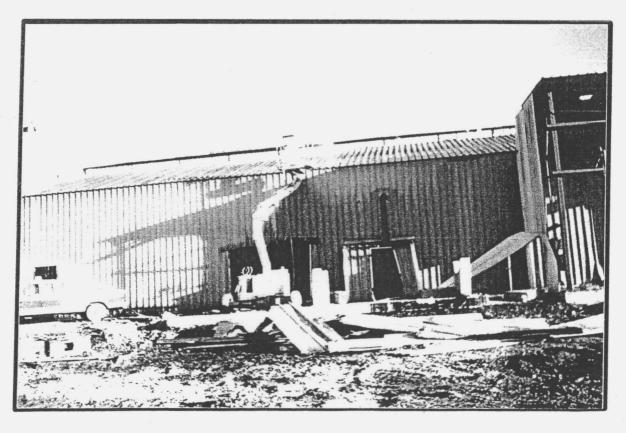
View of building floor before decontamination.



View of building floor after decontamination.



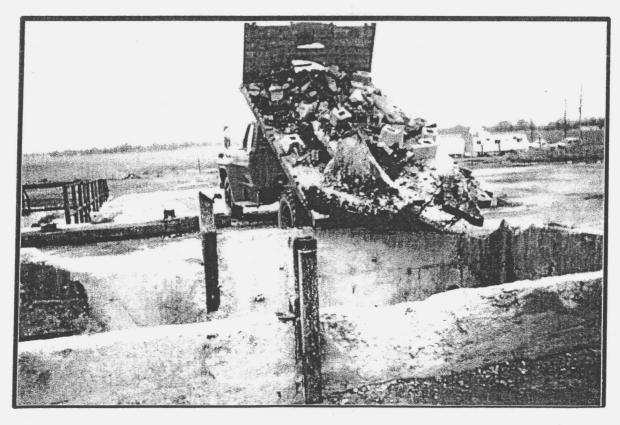
View of decontaminating inside of building.



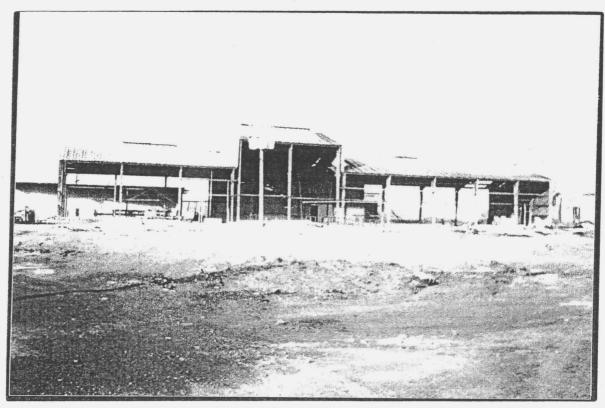
View of decontaminating outside of building.



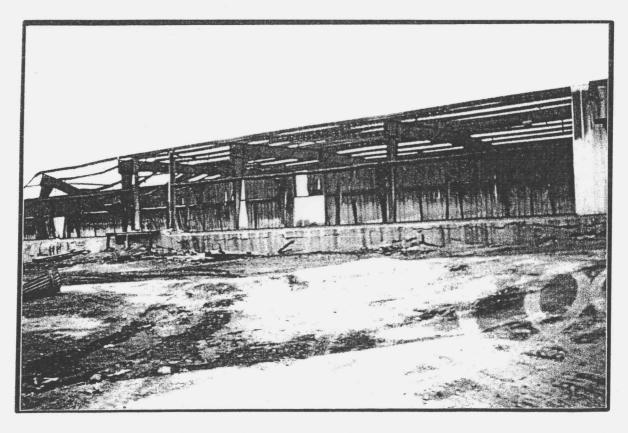
View of truck being loaded with concrete blocks and debris.



View of pit being filled in with concrete blocks and debris.



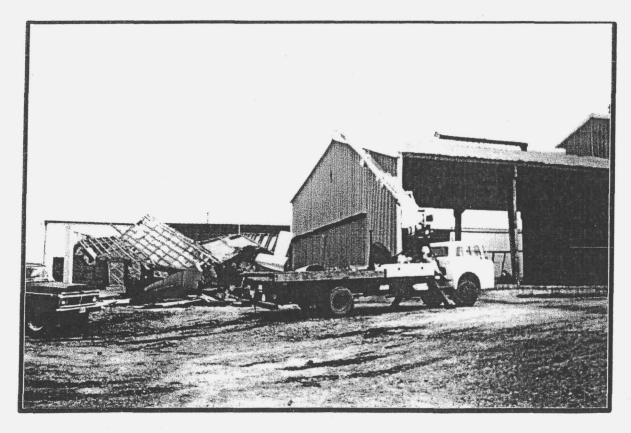
View of building #5 partially demolished.



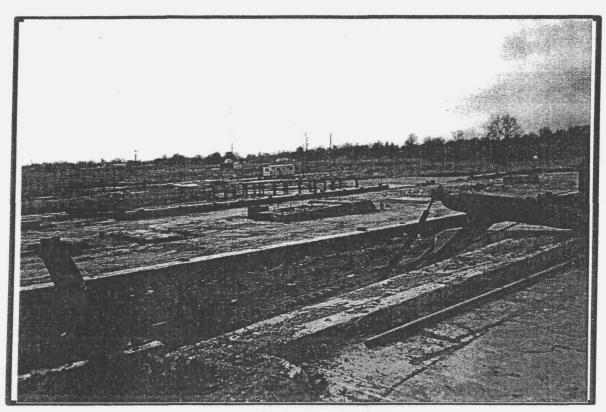
View of building #6 partially demolished.



View of Power Co. removing transformers and poles.



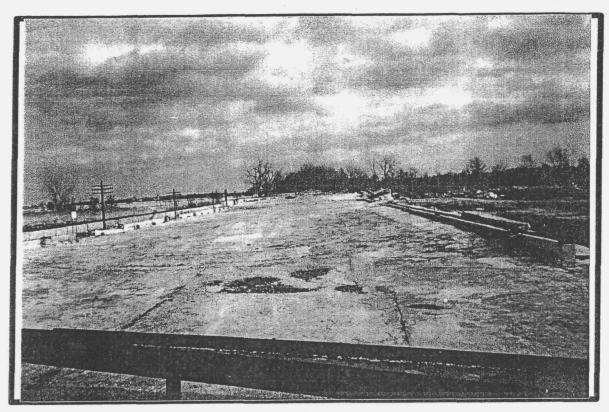
View of boom truck used to lower steel beams.



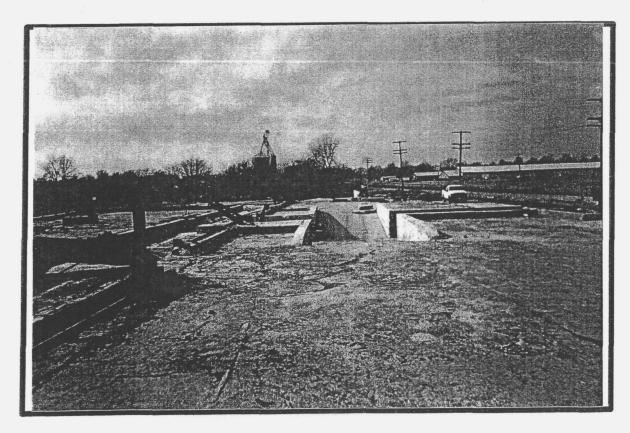
View of building #5 floor



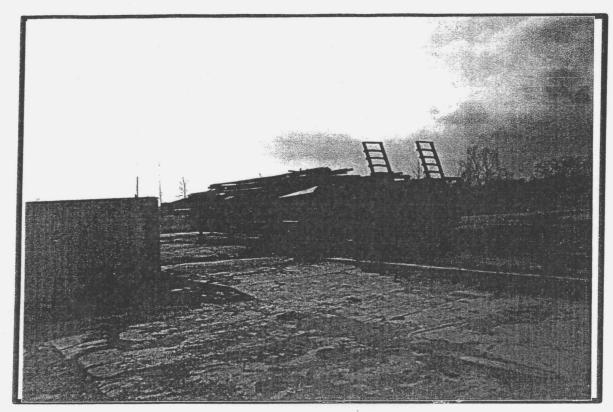
View of building #2 floor



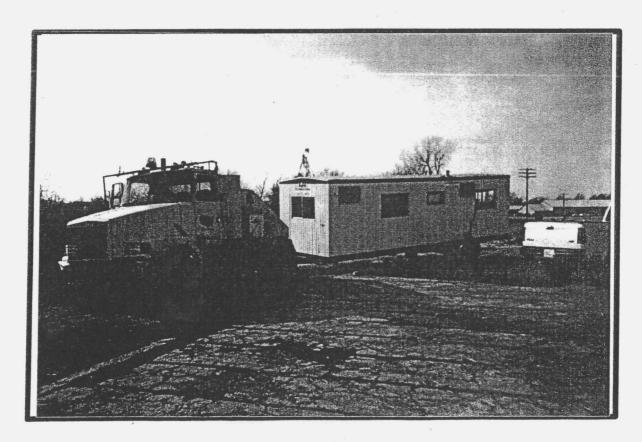
View of east end of building #6 floor



View of west end of building #6 floor



View of trailer loaded with steel beams



View of demobilization of office trailer